NALCOR ENERGY – OIL AND GAS INC

FINAL WELL REPORT

For

Nalcor Energy et al SEAMUS #1

At

Permit 03-103

Western Newfoundland

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Nalcor Energy et al Seamus #1

1. Introduction

The Nalcor et al Seamus #1 well was the first deep stratigraphic test drilled in the Parsons Pond area of Western Newfoundland. It is located at Latitude N 49° 58' 48.06660" and Longitude W 57° 42' 0.19169 (NAD 83 UTM Zone 21: X: 5 536 643.897; Y: 449 808.655) within Permit 03-103.

This well was drilled as a deviated exploration wildcat, targeting the Eagle Island Sands in the Allochthon and the Aguathuna, Catoche and Watts Bight Dolomites in the Ordovician Carbonate Platform of Western Newfoundland. (see Figure 1 and 2).

Nalcor Energy - Oil & Gas Inc. was the operator of the SEAMUS #1 well. The partner group includes Leprechaun Resources Inc., Investcan Energy Inc., Vulcan Minerals Inc. and Deer Lake Oil & Gas Inc. The current working interests are described in the table below.

	EL 03-101	EL 03-102	EL 03-103
Nalcor Energy	62.1429%	71.8707%	69.601%
Leprechaun Resources	9.2857%	10.7393%	10.399%
Vulcan Minerals	13.5714%	7.39%	10.0%
Investcan	14.0%	9.0%	9.0%
Deer Lake Oil and Gas	1.0%	1.0%	1.0%

Nalcor Energy – Oil and Gas Inc. contracted Stoneham Drilling Inc. Rig #11 to conduct the drilling program. Rig #11 has a rated capacity of 4500m with 127mm (5") drill pipe. It is a single type drilling rig powered by a Caterpillar 3412 (860 Hp), having a maximum hook load of 222,400 daN (226,785 Kg-force).

Nalcor Energy et. al. Seamus #1 was spud on February 15th, 2010 at 22:30 hours. The 444.5mm surface hole was drilled from 23m to 602m MD on March 6, 2010. The 311mm intermediate hole commenced drilling on March 9th with a total interval depth of 2298 m and was reached on April 20th. The 216 mm main hole started drilling on the 26th of April and reached a total depth of 3160 m on May 15th.

Drill rig was released on May 21st with the drilling manager staying on site until May 26th. The well was suspended with the BOP remaining onsite having the blind rams closed.

This well encountered the following Hydrocarbon Total Gas (TG) shows, while being drilled:

- The Shallow Bay @ 720m = 4.18% TG, @ 808m = 4.25% TG, @ 895m = 6.6% TG, @1048m = 20.5% TG.
- The Zone 3 Eagle Island Sandstone @ 1884m = 5.7% TG.

- The Yellow Point from 2138m to 2146m = TG from 64.89% to 74.01%.
- The Goose(American) Tickle @ 2290m = 2.2% TG.
- The Table Cove from 2600m to 2614m = TG from 44.8% to 19.3%.
- The Watts Bight from 3085m to 3130m = 0.5% to 1.5% TG.

The directional plan for well Seamus #1 was a 2-D profile along a single azimuth target of 99.43^0. The Stoneham Rig #11 began drilling the 444.5 mm-hole section February 15, 2010 with inclinations from 0.0^o to 4.26^o until 602.0m MD. The 311mm section was subsequently drilled from the 340mm surface casing with inclinations from 4.26^o to 25.70^o until 1,507.1m MD The 311mm section continued on a tangent (approximately 26^0) until 1892m MD, where the inclination was dropped to 15.3^0 by 2298.0m MD. (Intermediate Casing Point): Casing landed at 2292.5m. The 216mm hole section was drilled from 2292.5m MD to 3160m MD where the inclination continued to drop from 15.3^0. to 0.50^o. Total Final Depth (3160mMD) was reached on May 15, 2010.

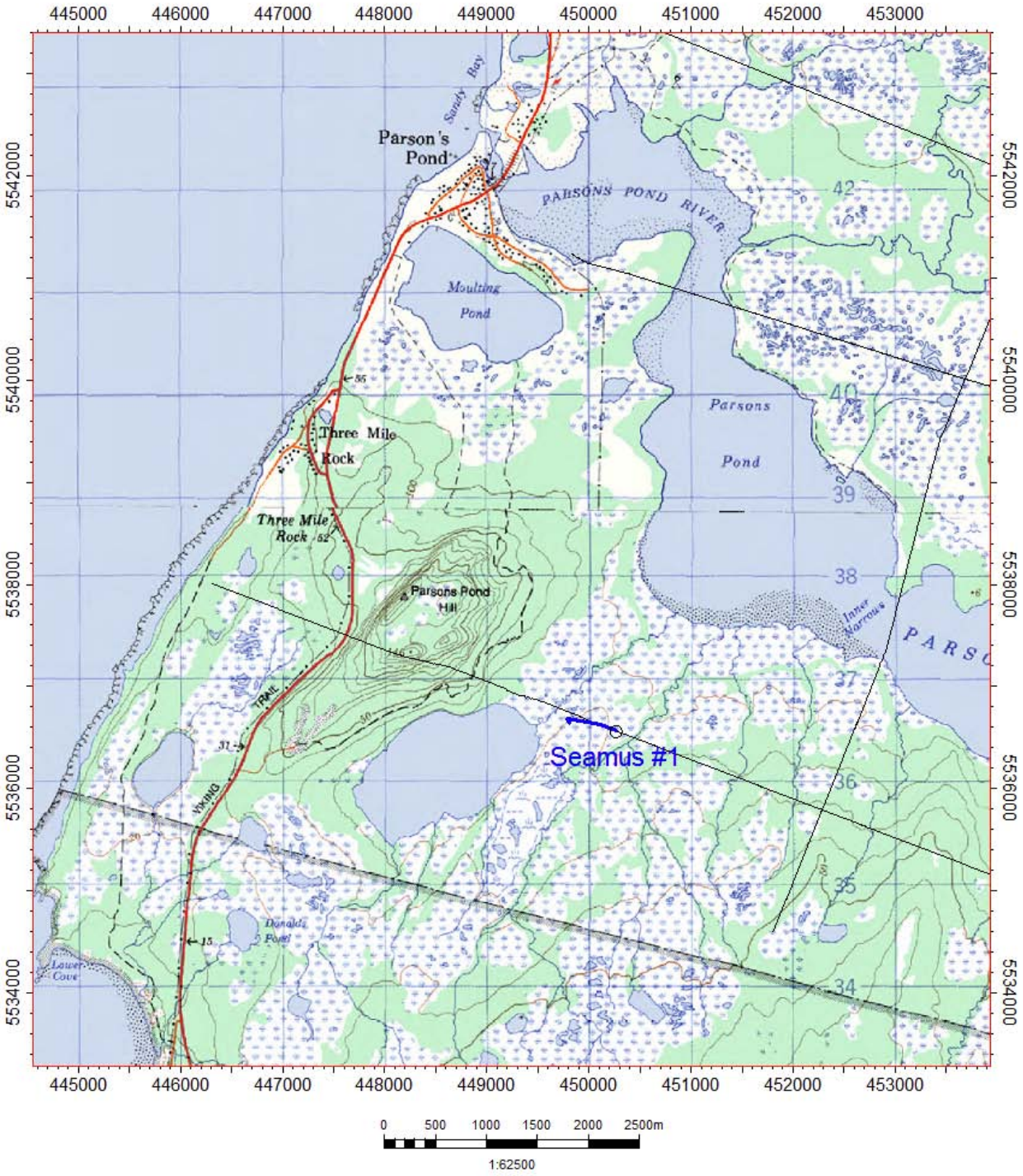


Figure 1: Location map: Nalcor et. al. SEAMUS #1

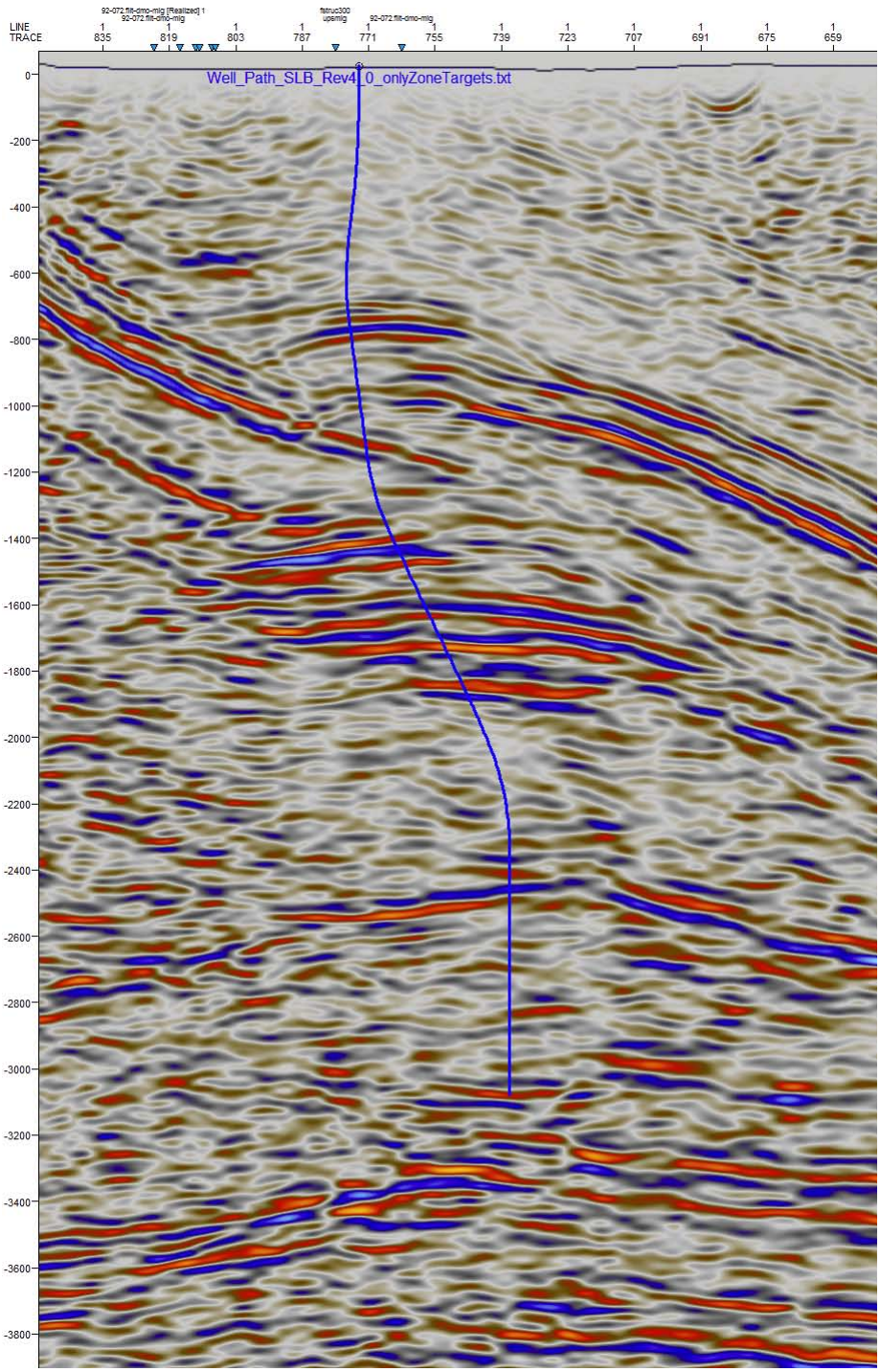


Figure 2: Nalcor et al SEAMUS #1 Seismic line

1 General Data

Well Name	Seamus #1
Exploration Permit	03-103
Drilling Program Approval	DPA 2010-128-02
Authority to Drill Well	ADW 2010-128-01
NAD 27 Coordinates	49° 58’ 48.40’’ N 57° 41’ 59.10’’ W
Operator	Nalcor Energy – Oil & Gas Inc.
Contractor	Stoneham Drilling Inc.

2.1 Well Name & Number: Nalcor Energy et al Seamus #1

2.2 Permit: 03-103

2.3 Operator: Nalcor Energy – Oil & Gas Inc
500 Columbus Drive
P.O. Box 12800, St. John’s NL
A1B 0C9

2.4 Well Location: NAD 83; Zone 21:
SEAMUS Surface Co-ordinates: X: 5 536 643.897; Y: 449 808.655
SEAMUS Bottom Hole Co-ordinates: X: 5 536 643.897; Y: 449 808.655

NAD 27: Zone 21
SEAMUS Surface Co-ordinates: X: 5 536 433.53; Y: 449 731.13
SEAMUS Bottom Hole Co-ordinates: X: 5 536 433.53; Y: 449 731.13

2.5 Drilling Unit:

Name: Rig 11

Company: Stoneham Drilling Inc.

Construction Completed: November 2006

Specifications: 4500m telescopic triple with 127mm (5”) drill pipe (Critical Sour)

2.6 Elevations:

Well name	Seamus #1
Ground Level	20.7 m
Rig Floor	6.30 m from ground level

2.7 Depths and Dates:

Well name	Seamus # 1
Total Drilled Depth	3,160 mKB
Logged Depth	1692.3 m
Plugged Back Depth	Plug #1 – 3,110 m Plug #2 – 2,303 m Plug #3 – 2,213 m

Well Name	Seamus #1
Rig Mobilization	January 24, 2010
Drilling Commencement	February 13th, 2010
Spud	February 15th, 2010 at 10:30 pm
Drilling Completed	May 20th, 2010 at 8:15 pm
Rig Released	May 22nd, 2010 at 12:00 pm

2.8 Well Status: Suspended

2.9 Time & Cost Analysis

Original AFE			**Actual**	
Activity	*Days*	*Cost (CAD $)*	*Cost (CAD $)*	*Days*
Drilling	65	$7, 957, 400.00	10, 395, 635.34	100

2.10 Difficulties & Delays

Fishing in Surface Hole Section

While drilling the 444.5 mm surface hole at a depth of 258 m, the crew tried to drill by increasing pump rates, weight on bit, and varying rotary rpm from 30-80. At 19:45 they tripped out of hole because they were unable to drill. They reached the Shock Sub and realized it had come undone, leaving a 24 meter fish in the hole. Upon arrival of the fishing equipment, they made up the overshot, bumper sub and fishing jars, then ran in hole to the top of the fish. They circulated and attempted to latch the fish but were unsuccessful. The crew pulled out of hole and redressed the overshot with a larger grapple and ran

in hole again. They were successful in latching unto and recovering the fish. The crew laid out the fish and fishing tools, made up a new bit and mud motor, then continued to drill from 258 – 275 m. Total nonproductive time for this delay was approximately 50 hours.

Down Time – Mud Pump Repair

On March 4th, the crew had to repair the air starter motor for mud pump #2. Total down time was 1.5 hours.

Down time - Motor Failure

On March 9th, at 23:30 the crew began to condition the mud and circulate prior to pulling out of hole due to a motor failure. They tripped out of hole with flow checks at 659 m, 577 m, 385 m, and then upon exiting the hole. They then pulled MWD tool, laid down mud motor and picked up new one. Total unproductive time for this delay was 5.75 hours.

Down Time – Rig Repair

On May 6th, at 21:45 the crew had to repair the exhaust manifold on the engine due to a leak on the floor motor. This rig repair was approximately 4 hours.

Down Time – Rig Repair

There was an electrical problem with the drawworks engine on May 12th. The crew had to trouble shoot the problem. The next day, the rotary table and drive chain were changed out. On the 15th, they had to wait on a mechanic and it was repaired. Total down time was 8.00 hours.

3.0 Summary of Drilling Operations

3.1 Drilling Operations

3.1.1 Hole / Casing Sizes and Depths

(All depths with reference to KB = 27.0 m above sea level)

Hole Sizes & Depths

Well Name	Seamus #1
444.5 mm	601.2 (mKB)
311.0 mm	2,292.0 (mKB)
216.0 mm	3160.0 (mKB)

Casing Record

Well Name	Seamus #1	
Casing Type	Surface	Intermediate
Casing Size	339.7 mm	244.5 mm
Weight	81.105	64.735
Grade	J-55	L-80
Number of Joints	44 (47)	111
Connection Type	BTC	BTC
Depth of Shoe	601.00 mKB	2292.50 mKB
Casing Hanger and Seal	N/A	9 /58”

3.1.2 444.5 mm Hole Section

Nalcor et al Seamus #1 was spudded at 22:30 on Feb 15, 2010 utilizing a 444 mm bit. Surface hole was drilled to a total depth of 601 m. The well was drilled at an elevation of approximately 20.70 m and was located about 8 km north of the town of Cow Head just off of the main highway.

Drill rig Stoneham #11 was used to drill the well. Surface hole was spudded into the Humber Arm Allochthon shale and carried on through the Lower head Formation (a mix of sandstone and shale) which was encountered at 25 m actual depth.

The only unscheduled event was at a depth of 258 m when the shock sub came apart leaving a 24 m fish in the hole. After waiting for approximately one day for fishing tools; a fishing bottom hole assembly was ran in the hole and the fish was easily recovered.

After the fishing operation the surface hole was drilled slowly to a final depth of 601.2 m on March 5, 2010 at 05:45. The well was circulated clean and 339.7 mm surface casing was ran and cemented in place. Total days to drill surface hole was just over 18 days with an additional 3 days to run casing, cement casing, rig in the BOP and pressure test.

Final estimated field cost to do the surface hole (including construction, engineering and rig move cost) was $3,477,717.61.

3.1.3 311.0 mm Hole Section

Nalcor et al Seamus #1 intermediate section began operations on March 8th at approximately 21:45. The surface cement was encountered as expected at 579 m and this was drilled out with a 311 mm bit.

Drilling continued to a depth of 605 m when a Formation Integrity test was performed. The hole was tested up to a maximum pressure of 20 kPa/m with no leak off. Routine drilling operations continued with some hole stability issues which included having to weight up to 1120 kg/m3 at 1011 m and further density increases (up to 1200 kg/m3) were required for hole stability before reaching an intermediate casing depth of 2298 m.

Drilling throughout this interval was slow. This was partially due to the geology (unexpected chert stringers and very hard carbonates throughout), increases in mud density to control the stability of the well, and the directional path (S well type configuration). Many different and varied bit parameters were attempted to help increase the penetration rate such as weight on bit adjustment, rotary speed changes, pump rate alterations and different types of bits and so on. In the end, the change of parameters had little impact on the penetration rate.

Torque and drag started to become an issue before the final intermediate depth was reached. In order to mitigate torque, different mud additives were used to help decrease the friction. Before the casing was ran, drill beads were added to the drilling fluid and toque was reduced substantially. These additions of the beads helped the casing run to bottom with no issues.

Stick slip parameters were also an issue in this section. Stick slip of the directional assembly was high (Over 100% at some points) according to the directional drilling field staff of Schlumberger. Different techniques of increasing/decreasing weight on bit reducing/increasing rotary speed were attempted with little to no effect on stick slip readings. This was an issue that reduced ROP overall in this section inevitably costing more drilling days and money.

A gas kick was encounter while drilling through the Yellow Point formation, which is mainly shale with imbedded limestone and sandstone. The gas zone from 2120 to 2142 meters caused influx into the well bore that required the well to be shut-in while mud weights were raised and the gas circulated out of the system. Between 2135 to 2140 m there was total gas of 64.89% at a depth of 2138.4 m and between the interval of 2140 to 2145 there was total gas of 70.74% at 2142.8 m.

The caliper log on this well showed large areas of washout, although drilling these washout areas were not apparent. Two separate sawdust sweeps were pumped and indicated an average hole enlargement of 11-12% over gauge. While circulating prior to running casing two different pills were circulated through the system to try and substantiate the caliper log. The pills did not confirm the large washouts; it was deduced that the caliper was measuring the long axis of an oblong type washout and this was confirmed when the extra cement used to make up for the washout returned to surface. The error in the log data was contributed to the type of logging tool used. A one armed caliper was used whereas a four arm caliper should be the minimum used to determine an accurate hole volume.

This section of the well took about 52 days to drill, log, and case. The total field cost for this section was $3,853,781.62.

3.1.4 216.0 mm Hole Section

The main hole section (216 mm diameter) was drilled out on April 26/2010 at 9:45. This section was the final section of the well and was drilled to a total measured depth of 3160 m. Drilling operations were fairly routine with no significant hole issues including no sidetracks, fishing, well kicks or uncontrolled deviation issues.

Drilling was somewhat slow with rate of penetration in the 1.5 - 5.7 m/hr range. The hard formations drilled contributed to the slow penetration rates and were expected. High Torque was evident while

drilling this section and was mitigated with extra additions of polymers and graphite lubricants. Prior to reaching total depth the density of the fluid had to be increased in order to stabilize the well; the density was increased to 1210 kg/m3. Drilling continued to total depth of 3160 m. At TD extensive wireline logs were run including a VSP. The logging runs were successful with no bridged runs and excellent data recovery. Overall this section of the well had few problems and was drilled within expected time and cost parameters.

The Rig was released at 12:00 PM on May 22, 2010 and was racked on location pending the approval of the next well in this project.

The total field cost for this section was $1, 902, 397.87.

3.2 Casing and Cementing Reports

3.2.1 Casing Summary

Well Name	Seamus #1	
Casing Type	Surface	Intermediate
Casing Size	339.7 mm	244.5 mm
Weight	81.105 kg/m	64.735 kg/m
Grade	J-55	L-80
Number of Joints	44 (47)	111
Connection Type	BTC	BTC
Depth of Shoe	601.00 mKB	2292.50 mKB
Casing Hanger and Seal	N/A	9 5/8”

3.2.2 Cementing Summary

	Casing Size [mm]	Slurry Volume [m3]	Slurry Density [kg/m3]	Cement Class	Cement Additives	Cement top [mkB]	Cement Base [mkB]	Basis of Top Estimate [Calc/CBL]
Seamus #1	339.7	67.24	1878	A	N/A	6	601	Visual
	244.5	3	1250	Fill Lite	R-3 Cement Retarder	6	2296	Visual
		34	1518	Fill Lite	R-3 Cement Retarder		2296	
		75.7	1901	G	R-3 Cement Retarder		2296	
					FL-5 Fluid Loss Control			

See Appendix G for Casing and Cementing Report

3.3 Bit Record

See Appendix A for detailed bit record and bit performance summary

3.4 Lost Circulation

No lost circulation problems were encountered in this well

3.5 Well Kicks

A gas kick was encounter while drilling through the Yellow Point formation, which is mainly shale with imbedded limestone and sandstone. The gas zone from 2120 to 2142 meters caused influx into the well bore that required the well to be shut-in while mud weights were raised and the gas circulated out of the system. Between 2135 to 2140 m there was total gas of 64.89% at a depth of 2138.4 m and between the interval of 2140 to 2145 there was total gas of 70.74% at 2142.8 m.

3.6 Directional Drilling & Survey

Seamus interval	Section TD (mKB)	Inclination & Azimuth	BHA Type
Surface	601.2	~2.93 & 332.12	5HOA598-7086
Intermediate	2,292.0	~2.33 & 68.57	GX-30MDX
Production	3160.0	~1.00 & 200.00	R40ADH

3.7 Tool Failures

No Tool Failures.

3.8 Time Breakdown

See Appendix B for tables and charts summarizing hourly breakdown

3.9 Coring

No cores were cut in this well

3.10 Fishing

While drilling the 444.5 mm surface hole at a depth of 258 m, the crew tried to drill by increasing pump rates, weight on bit, and varying rotary rpm from 30-80. At 19:45 they tripped out of hole because they were unable to drill. They reached the Shock Sub and

realized it had come undone, leaving a 24 meter fish in the hole. Upon arrival of the fishing equipment, they made up the overshot, bumper sub and fishing jars, then ran in hole to the top of the fish. They circulated and attempted to latch the fish but were unsuccessful. The crew pulled out of hole and redressed the overshot with a larger grapple and ran in hole again. They were successful in latching unto and recovering the fish. The crew laid out the fish.

3.11 Formation Integrity / Leak-off Results

See Appendix C for Formation Integrity / Leak-off Test

3.12 Drill Stem Test Zones

No drill stem tests were performed during this well.

3.13 Cement Plugs

Well Name	Seamus #1		
	Cement Plugs		
	#1	#2	#3
Top	3110 mKB	2303 mKB	2213 mKB
Bottom	3160 mKB	2342 mKB	2303 mKB
Class	G	G	G
Amount	2 m^3	5.3 m^3	4.3 m^3
Additives	CD-31 Dispersant R-3 Cement Retarder	CD-31 Dispersant R-3 Cement Retarder	CD-31 Dispersant R-3 Cement Retarder
Well Status	Suspended		

3.14 Drilling Curve

See Appendix D for the drilling curves (Depth and Cost vs. days).

3.15 Drilling Fluid

Int #	Fluid Type	Interval Days	BHT Deg C	Max. Dens kg/m3
1	AQUAGEL Mud Water	22	67	1,210.00
2	AQUAGEL Mud	49	80	1,230.00

	Water			
	Gel Polymer			
	CLAYSYNC premix			
	Bentonite			
3	Water	26		1,210.00
	Gel Polymer			
	CLAYSYNC premix			
	Claysync 216mm section			

See Appendix E for mud properties, daily mud check sheets, and dilution curves.

Appendix A

Detailed Bit Record and Bit Performance Summary

Bit Summary

WellView

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	Well Configuration Type	Ground Elevation (m)	Casing Flange Elevation (m)	KB-Ground Distance (m)	KB-Casing Flange Distance (m)
n/a	49:58:48.40N/057:41:59.10W	3-103	DIR	20.70	20.70	6.30	6.30

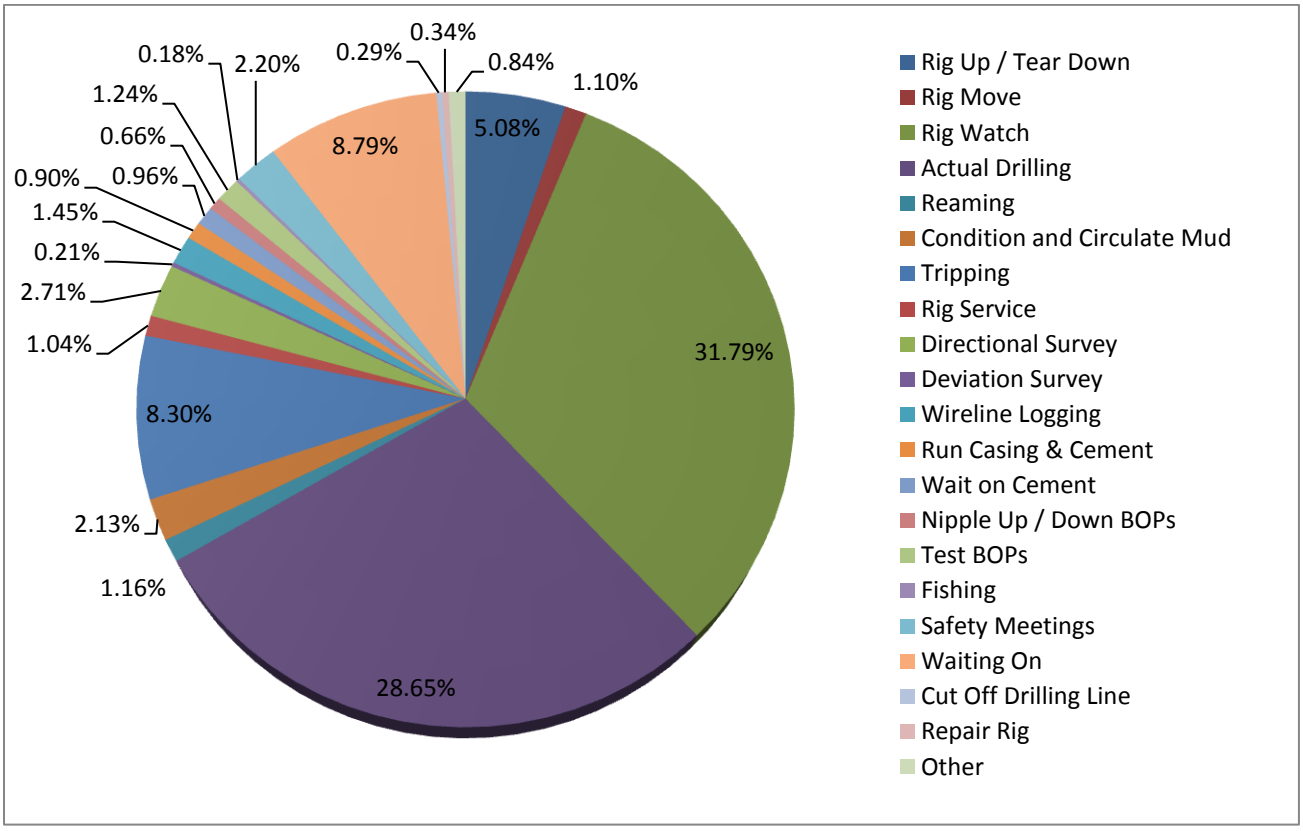
Bits

BHA No.	Bit Run	Size (mm)	Make	Model	SN	IADC Codes	TFA (incl Noz) (mm²)	Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (hrs)	BHA ROP (m/hr)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Bit Dull
1																		-------
2	1	444.5	HUGHES	PS33	6080265	---	722	17.5/17.5/17.5	20.00	202.00	151.00	77.75	1.9	15	5	150	80	-------
3	2	444.5	SMITH	G15BODC...	MZ0261	4-4-5-	1,514	23.8/23.8/23.8/15.1	203.00	258.00	55.00	31.50	1.7	14	10	180	135	-------
4	3	444.5	HUGHES	GTX-40	6075440	6-1-5-	482	14.3/14.3/14.3	258.00	400.00	141.00	62.25	2.3	15	10	160	30	4-6-FC-A-E-1.00-WT-BHA
5	4	444.5	REED	5HOA598-...	NC5609	5-1-5-	792	17.5/17.5/17.5/9.5	400.00	504.00	103.00	48.50	2.1	18	12	45	1	1-3-FC-G-E-0.00-NO-HP
6	5	444.5	SMITH	XR+	PK7165	1-1-5-	986	19.1/19.1/19.1/12.7	504.00	560.00	56.00	26.75	2.1	18	13	26	1	-----0.00--
7	6RR	444.5	REED	5HOA598-...	NC5609	5-1-5-	792	17.5/17.5/17.5/9.5	560.00	601.20	41.20	15.00	2.7	21	18	26	22	3-4-FC-A-E-8.00-NO-TD
8	7	311.0	SMITH	XR+	8362	1-1-7-	722	15.9/15.9/15.9/12.7	601.00	699.00	98.00	43.00	2.3	18	10	25	25	5-7-WT-A-E-311.00-NO-...
9	8	311.0	HUGHES	GX-35DX	6072503	5-4-7-	1,008	22.0/20.0/20.0	700.00	896.00	182.54	57.75	3.2	14	14	35	30	1-1-NO-A-4-311.00-NO-...
10	9	311.0	HUGHES	HCD506Z	7011078	---	333	10.3/10.3/10.3/10.3	899.00	1,036.00	268.00	44.00	6.1	9	4	120	120	2-2-CC-H-X-2.00-CC-PR
11	10	311.0	HUGHES	GX-35DX	6074869	5-3-7-	520	14.3/14.3/15.9	1,036.00	1,076.00	40.00	18.25	2.2	14	12	140	140	-------
12	11	311.0	SMITH	MSi816W...	SCB792	---	240	7.9/7.9/9.5/9.5	1,076.00	1,283.00	207.00	84.25	2.5	10	9	120	110	0-0-NO-A-X-0-NO-PR
13	RR...	311.0	HUGHES	GX-35DX	6074869	5-3-7-	1,040	14.3/14.3/15.9/14.3/14.3/...	1,294.00	1,386.00	92.00	46.25	2.0	14	10	170	120	2-2-FC-A-E-1.00-NO-BHA
14	13	311.0	HUGHES	HCM608	7109973	---	284	9.5/9.5/9.5/9.5	1,386.00	1,433.00	47.00	26.25	1.8	12	10	40	40	4-5-BT-A-X-0-LT-PR
15	14	311.0	REED	M4249ZP...	CW7863	5-3-7-	596	15.9/15.9/15.9	1,433.00	1,552.00	119.00	42.50	2.8	20	10	40	35	8-8-WT-A-F-1.00-BT-PR
16	15	311.0	HUGHES	S55RDX	6071993	6-3-7-	596	15.9/15.9/15.9	1,552.00	1,701.00	146.00	62.75	2.3	20	19	60	40	2-2-NO-A-E-1-NO-PR
17	16	311.0	HUGHES	GX-44DX	6072495	6-1-7-	596	15.9/15.9/15.9	1,701.00	1,908.00	207.00	78.25	2.6	20	17	165	55	1-1-WT-A-F-0--HR
18	17	311.0	HUGHES	GX-44DX	6072050	6-1-7-	448	14.3/14.3/12.7	1,908.00	2,044.00	112.00	61.75	1.8	24	15	165	90	1-1-NO-A-5-0-NO-HR
19	18	311.0	HUGHES	GX-35DX	6074846	5-3-7-	520	15.9/14.3/14.3	2,044.00	2,179.00	127.00	66.75	1.9	23	19	160	120	2-2-FC-H-2-0.50-WT-HR
20	19	311.0	HUGHES	GX-30MDX	6074879	5-3-7-	520	15.9/14.3/14.3	2,179.00	2,298.00	119.00	53.25	2.2	22	20	120	80	1-1-WT-H-E-1.00-NO-TD
21	RR	311.0	HUGHES	GX-35DX	6074846	5-3-7-		0.0/0.0/0.0/0.0/0.0/0.0/0....										-------
22	20	216.0	HUGHES	GX35DX	5163640	5-3-7-	1,504		2,298.00	2,485.00	321.00	56.25	5.7	20	12	30	25	-------
23	21	216.0	HUGHES	GX-30DX	6065998	5-3-7-	581	11.1/11.1/11.1/11.1/11.1/...	2,485.00	2,767.00	240.00	51.00	4.7	20	20	30	30	-------
24	22	216.0	HUGHES	HCD506Z	7213261	5-4-7-	284	9.5/9.5/9.5/9.5	2,767.00	2,811.00	25.00	10.25	2.4	12	10	30	30	3-3-CT-A-X-0-WT-PR
25	23	216.0	HUGHES	GX-35DX	6075552	5-4-7-	305	11.1/11.1/11.9	2,811.00	2,842.00	29.00	19.25	1.5	20	18	30	30	8-8-LT-A-E-16.00-WT-TO
26	24	216.0	HUGHES	HR-044GDX	6061790	6-1-7-	610	11.1/11.1/11.9/11.1/11.1/...	2,842.00	2,924.00	71.00	37.75	1.9	18	16	40...	35	8-8-LT-A-E-16.00-WT-TO
27	25	216.0	REED	R40APDH	KB1429	6-1-7-	914	11.1/11.1/11.9/11.1/11.1/...	2,924.00	2,977.00	53.00	18.75	2.8	16	16	45	45	1-2-WT-S-E-0.00-WT-DTF
28	26	216.0	HUGHES	GX-44DX	6059477	6-1-7-	305	11.1/11.9/11.1	2,979.00	3,079.00	90.00	44.50	2.0	16	13	45	30	2-2-BT-H-E-0.00-WT-HR
29	27	216.0	REED	R40ADH	KB1434	6-1-7-	290	11.1/11.1/11.1	3,079.00	3,160.00	81.00	32.75	2.5	16	9	60	45	4-7-LT-A-E-0.00-BT-TD
30	RR...	216.0	HUGHES	GX-44DX	6059477	6-1-7-	290	11.1/11.1/11.1										-------

Appendix B

Time Breakdown

Time Break-Down Fig 1



Time Break-Down Table 1

Operation Type	Cum. Time [hrs]	Cum. Time [%]
Rig Up / Tear Down	216.5	5.08%
Rig Move	46.8	1.10%
Rig Watch	1356	31.79%
Actual Drilling	1222.2	28.65%
Reaming	49.5	1.16%
Condition and Circulate Mud	91	2.13%
Tripping	354	8.30%
Rig Service	44.2	1.04%
Directional Survey	115.5	2.71%
Deviation Survey	9	0.21%
Wireline Logging	62	1.45%
Run Casing & Cement	38.2	0.90%
Wait on Cement	41	0.96%
Nipple Up / Down BOPs	28	0.66%
Test BOPs	52.8	1.24%
Fishing	7.5	0.18%
Safety Meetings	94	2.20%
Waiting On	375	8.79%
Cut Off Drilling Line	12.2	0.29%
Repair Rig	14.5	0.34%
Other	36	0.84%
Total Hours	4265.9	100.00%

Appendix C

Formation Integrity / Leak-off Test

Formation Leak-off Test

Intermediate Hole Section:

A formation integrity test was carried out after drilling out. Pressure was taken up to 20mpa and stopped prior to leak off. The following Data summarizes the FIT completed in this section:

Leak off Test Data		
Depth	605	m
Mud density	1050	kg/m^3
Surface pressure*	20	Mpa
Last Casing Depth	601	m
Mud Weight equivalent at last casing depth	1246.2	kg/m^3
*No Beakdown acheived		

Main Hole Section:

A formation integrity test was carried out after drilling out. Pressure was taken up to 21MPa and stopped prior to leak off. . Leakoff gradient of 20.29. The following Data summarizes the FIT completed in this section:

Leak off Test Data	
Depth	2303m
Mud Density	1100 kg/m3
Surface Pressure	20Mpa
Last Casing Depth	2292.50 mKB

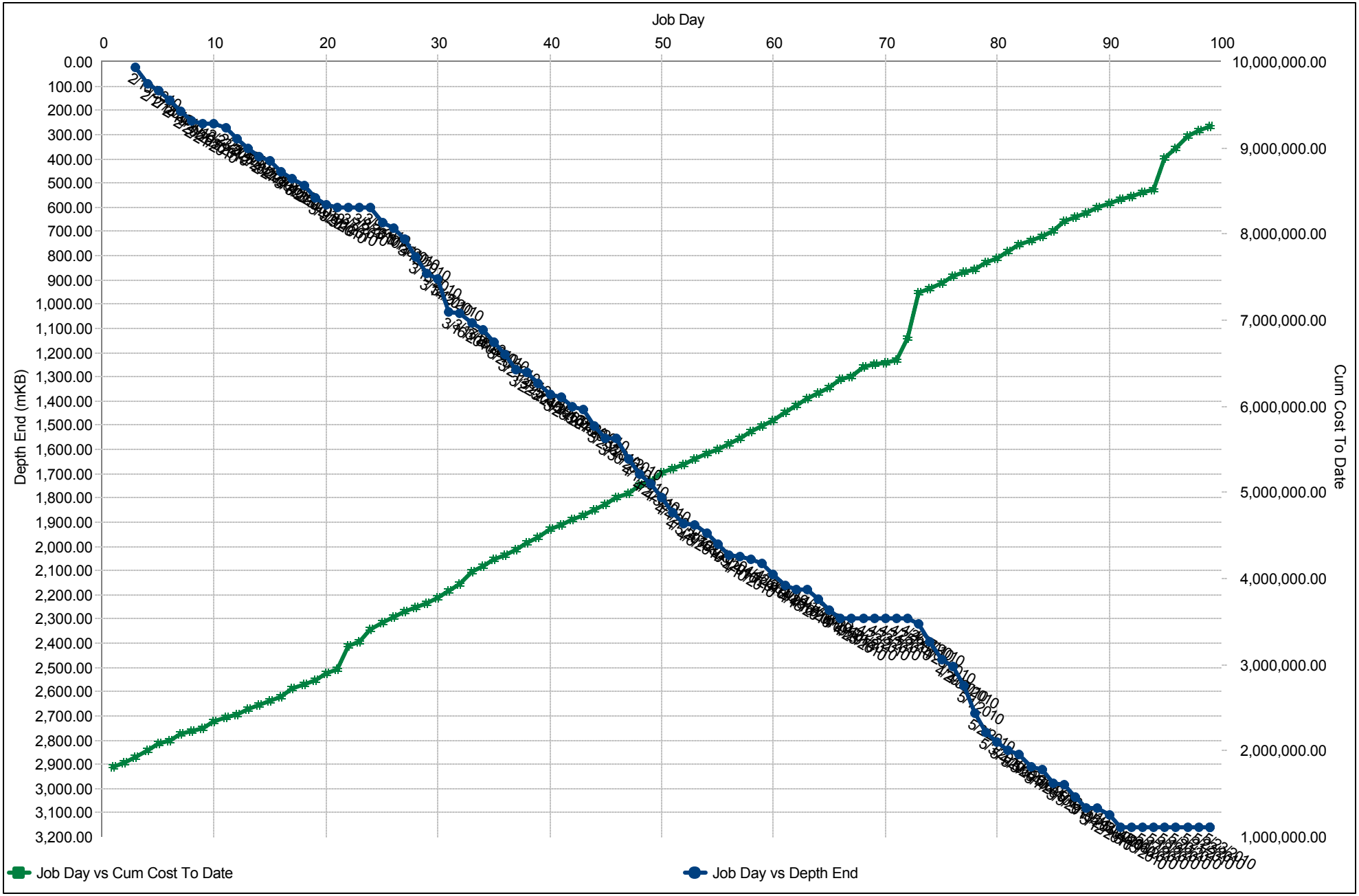
Appendix D

Drilling Curves

Days vs Depth and Cost - Graph

Well Name: NALCOR ET AL. SEAMUS # 1.

Job Category	Primary Job Type	Start Date	End Date	AFE Number	Total AFE + Sup Amount	Total Field Estimated Cost	Total Depth Drilled (m)
Drilling	Drilling	2/13/2010		6220 1001	7,957,400.00	9,256,117.51	3,221.74



Appendix E

Drilling Fluid Records

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/22/2010, Report # 99.0, DFS: 96.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,160.00	3,160.00	0.00				339,444.99

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/21/2010, Report # 98.0, DFS: 95.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,160.00	3,160.00	0.00			20,991.72	339,444.99

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Water Base	2,200.00	981.0							11.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CITRIC ACID	SX	158.68	5/21/2010		1.0		0.0	158.68	7,140.60
ZETAG 7692	SX	828.85	5/21/2010		2.0		5.0	1,657.70	4,144.25
ZETAG 7587	SX	395.59	5/21/2010		2.0		6.0	791.18	1,582.36
LIME	SX	11.36	5/21/2010		5.0		137.0	56.80	545.28
ALKAPAM A1103D	SX	246.36	5/21/2010		6.0		17.0	1,478.16	5,666.28
SODA ASH	SX	25.48	5/21/2010		14.0		14.0	356.72	917.28
CALCIUM NITRATE	SX	53.24	5/21/2010		27.0		35.0	1,437.48	8,784.60
CLAYSYNC II	SX	396.36	5/21/2010	63.0			63.0		0.00
PALLETS	EA	25.00	5/21/2010	237.0	237.0		0.0	5,925.00	5,925.00
ENVIRO CHARGE 20L PAIL	EA	20.00	5/21/2010	49.0	49.0		0.0	980.00	980.00
SHRINKWRAP	EA	25.00	5/21/2010	257.0	257.0		0.0	6,425.00	6,425.00
MUD BALANCE	EA	25.00	5/21/2010	69.0	69.0		0.0	1,725.00	1,725.00

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/20/2010, Report # 97.0, DFS: 94.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,160.00	3,160.00	0.00			3,491.09	318,453.27

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARAFOS	SX	97.10	5/20/2010		11.0		1.0	1,068.10	1,359.40
ZETAG 7692	SX	828.85	5/20/2010		1.0		7.0	828.85	2,486.55
BARAFOS	SX	97.10	5/20/2010		1.0		0.0	97.10	1,456.50
ALKAPAM A1103D	SX	246.36	5/20/2010		2.0		23.0	492.72	4,188.12
CALCIUM NITRATE	SX	53.24	5/20/2010		6.0		62.0	319.44	7,347.12
SODA ASH	SX	25.48	5/20/2010		16.0		28.0	407.68	560.56
SAWDUST	SX	6.93	5/20/2010		40.0		375.0	277.20	2,079.00

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/19/2010, Report # 96.0, DFS: 93.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,160.00	3,160.00	0.00			1,607.61	314,962.18

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,160.00	1210.0	71							

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ZETAG 7692	SX	828.85	5/19/2010		1.0		8.0	828.85	1,657.70
ALKAPAM A1103D	SX	246.36	5/19/2010		1.0		25.0	246.36	3,695.40
CALCIUM NITRATE	SX	53.24	5/19/2010		8.0		70.0	425.92	6,921.20
CALCIUM NITRATE	SX	53.24	5/19/2010		2.0		68.0	106.48	7,027.68

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/18/2010, Report # 95.0, DFS: 92.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,160.00	3,160.00	0.00			952.08	313,354.57

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,160.00	1210.0	71						9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CITRIC ACID	SX	158.68	5/18/2010		6.0		1.0	952.08	6,981.92

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/17/2010, Report # 94.0, DFS: 91.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,160.00	3,160.00	0.00			4,107.99	312,402.49

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,160.00	1200.0	64	19.0	12.000	7.000	11.500	8.0	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ALKAPAM A1103D	SX	246.36	5/17/2010		2.0		26.0	492.72	3,449.04
CALCIUM NITRATE	SX	53.24	5/17/2010		9.0		78.0	479.16	6,495.28
PAC R	SX	157.31	5/17/2010		1.0		12.0	157.31	13,843.28
BARITE	SX	27.08	5/17/2010		110.0		2,056.0	2,978.80	104,691.28

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/16/2010, Report # 93.0, DFS: 90.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,160.00	3,160.00	0.00				308,294.50

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,160.00	1170.0	60	18.0	10.500	6.000	11.000	7.6	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/15/2010, Report # 92.0, DFS: 89.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,160.00	3,160.00	0.00			4,400.61	308,294.50

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,160.00	1170.0	56		11.000				9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
STEEL SEAL 400	SX	236.21	5/15/2010		9.0		10.0	2,125.89	21,258.90
BARITE	SX	27.08	5/15/2010		42.0		2,208.0	1,137.36	100,575.12
BARITE	SX	27.08	5/15/2010		42.0		2,166.0	1,137.36	101,712.48

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/14/2010, Report # 91.0, DFS: 88.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,108.00	3,160.00	52.00	18.75	2.8	6,982.45	303,893.89

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,155.00	1165.0	57	18.0	10.000	5.000	10.000	8.0	9.0	7.3

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	PAILS	231.78	5/14/2010		2.0		6.0	463.56	6,026.28
BARAZAN	SX	184.89	5/14/2010		2.0		104.0	369.78	25,145.04
PAC R	SX	157.31	5/14/2010		3.0		15.0	471.93	13,371.35
STEEL SEAL 400	SX	236.21	5/14/2010		6.0		25.0	1,417.26	17,715.75
PAC R	SX	157.31	5/14/2010		2.0		13.0	314.62	13,685.97
EZ MUD DP	PAILS	231.78	5/14/2010		6.0		0.0	1,390.68	7,416.96
STEEL SEAL 400	SX	236.21	5/14/2010		6.0		19.0	1,417.26	19,133.01
BARITE	SX	27.08	5/14/2010		42.0		2,250.0	1,137.36	99,437.76

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/13/2010, Report # 90.0, DFS: 87.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,079.00	3,108.00	29.00	14.00	2.1	9,880.97	296,911.44

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,099.00	1150.0	53	15.0	7.700	3.500	7.000	8.2	9.2	6.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	5/13/2010		1.0		163.0	47.91	5,318.01
PAC R	SX	157.31	5/13/2010		1.0		18.0	157.31	12,899.42
EZ MUD DP	PAILS	231.78	5/13/2010		2.0		8.0	463.56	5,562.72
STEEL SEAL 400	SX	236.21	5/13/2010		5.0		31.0	1,181.05	16,298.49
STEEL SEAL 100	SX	236.21	5/13/2010		34.0		0.0	8,031.14	11,810.50

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/12/2010, Report # 89.0, DFS: 86.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,079.00	3,079.00	0.00			2,948.14	287,030.47

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,070.00	1145.0	56					8.0	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	5/12/2010		1.0		19.0	157.31	12,742.11
STEEL SEAL 400	SX	236.21	5/12/2010		7.0		36.0	1,653.47	15,117.44
BARITE	SX	27.08	5/12/2010		42.0		2,292.0	1,137.36	98,300.40

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/11/2010, Report # 88.0, DFS: 85.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
3,035.00	3,079.00	34.00	18.50	1.8	6,650.51	284,082.33

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,075.00	1145.0	56	16.0	9.100	4.000	8.000			

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	PAILS	231.78	5/11/2010		1.0		12.0	231.78	4,635.60
PAC R	SX	157.31	5/11/2010		1.0		22.0	157.31	12,270.18
STEEL SEAL 400	SX	236.21	5/11/2010		3.0		47.0	708.63	12,519.13
CAUSTIC	SX	47.91	5/11/2010		1.0		164.0	47.91	5,270.10
EZ MUD DP	PAILS	231.78	5/11/2010		2.0		10.0	463.56	5,099.16
BARAZAN	SX	184.89	5/11/2010		2.0		106.0	369.78	24,775.26
PAC R	SX	157.31	5/11/2010		2.0		20.0	314.62	12,584.80
STEEL SEAL 400	SX	236.21	5/11/2010		4.0		43.0	944.84	13,463.97
BARITE	SX	27.08	5/11/2010		126.0		2,334.0	3,412.08	97,163.04

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/10/2010, Report # 87.0, DFS: 84.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,986.00	3,035.00	49.00	22.25	2.2	17,369.32	277,431.82

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	3,002.00	1200.0	45	15.0	6.200	3.500	5.000	9.2	9.0	5.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	PAILS	231.78	5/10/2010		1.0		16.0	231.78	3,708.48
STEEL SEAL 400	SX	236.21	5/10/2010		2.0		56.0	472.42	10,393.24
BARITE	SX	27.08	5/10/2010		501.0		2,460.0	13,567.08	93,750.96
BARAZAN	SX	184.89	5/10/2010		2.0		108.0	369.78	24,405.48
CAUSTIC	SX	47.91	5/10/2010		3.0		165.0	143.73	5,222.19
EZ MUD DP	PAILS	231.78	5/10/2010		3.0		13.0	695.34	4,403.82
PAC R	SX	157.31	5/10/2010		3.0		23.0	471.93	12,112.87
STEEL SEAL 400	SX	236.21	5/10/2010		6.0		50.0	1,417.26	11,810.50

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/9/2010, Report # 86.0, DFS: 83.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,979.00	2,986.00	7.00	3.75	1.9	1,590.21	260,062.50

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,979.00	1120.0	54	17.0	8.100	4.000	6.000	8.0	9.0	5.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
STEEL SEAL 400	SX	236.21	5/9/2010		1.0		58.0	236.21	9,920.82
BARITE	SX	27.08	5/9/2010		50.0		2,961.0	1,354.00	80,183.88

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/8/2010, Report # 85.0, DFS: 82.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,924.00	2,977.00	53.00	18.75	2.8	3,710.06	258,472.29

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
16:50	Gel-Chem	2,960.00	1120.0	50	14.0	7.200	3.000	4.500	7.5	9.2	6.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	5/8/2010		1.0		1.0	231.78	9,271.20
STEEL SEAL 400	SX	236.21	5/8/2010		1.0		65.0	236.21	8,267.35
PAC R	SX	157.31	5/8/2010		1.0		26.0	157.31	11,640.94
CARBONOX	SX	18.67	5/8/2010		1.0		28.0	18.67	2,147.05
CAUSTIC	SX	47.91	5/8/2010		1.0		168.0	47.91	5,078.46
EZ MUD DP	PAILS	231.78	5/8/2010		2.0		17.0	463.56	3,476.70
STEEL SEAL 400	SX	236.21	5/8/2010		6.0		59.0	1,417.26	9,684.61
BARITE	SX	27.08	5/8/2010		42.0		3,011.0	1,137.36	78,829.88

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/7/2010, Report # 84.0, DFS: 81.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,913.00	2,924.00	11.00	9.25	1.2	2,772.56	254,762.23

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
09:00	Gel-Chem	2,923.00	1120.0	46	13.0	7.200	3.000	4.000	8.5	9.0	6.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	5/7/2010		2.0		2.0	463.56	9,039.42
STEEL SEAL 400	SX	236.21	5/7/2010		5.0		66.0	1,181.05	8,031.14
CAUSTIC	SX	47.91	5/7/2010		1.0		169.0	47.91	5,030.55
ALKAPAM A1103D	SX	246.36	5/7/2010		1.0		28.0	246.36	2,956.32
EZ MUD DP	PAILS	231.78	5/7/2010		1.0		19.0	231.78	3,013.14
PAC R	SX	157.31	5/7/2010		1.0		27.0	157.31	11,483.63
CARBONOX	SX	18.67	5/7/2010		1.0		29.0	18.67	2,128.38
CALCIUM NITRATE	SX	53.24	5/7/2010		8.0		87.0	425.92	6,016.12

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/6/2010, Report # 83.0, DFS: 80.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,860.00	2,913.00	42.00	22.00	1.9	4,642.13	251,989.67

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
18:30	Gel-Chem	2,906.00	1115.0	47	13.0	7.200	3.000	4.000	7.0	9.0	6.4

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ALKAPAM A1103D	SX	246.36	5/6/2010		1.0		29.0	246.36	2,709.96
CAUSTIC	SX	47.91	5/6/2010		2.0		171.0	95.82	4,934.73
BARAZAN	SX	184.89	5/6/2010		2.0		110.0	369.78	24,035.70
EZ MUD DP	PAILS	231.78	5/6/2010		4.0		22.0	927.12	2,317.80
STEEL SEAL 400	SX	236.21	5/6/2010		4.0		71.0	944.84	6,850.09
CAUSTIC	SX	47.91	5/6/2010		1.0		170.0	47.91	4,982.64
PAC R	SX	157.31	5/6/2010		1.0		28.0	157.31	11,326.32
CARBONOX	SX	18.67	5/6/2010		1.0		30.0	18.67	2,109.71
EZ MUD DP	PAILS	231.78	5/6/2010		2.0		20.0	463.56	2,781.36
STEEL SEAL 100	SX	236.21	5/6/2010		4.0		34.0	944.84	3,779.36
CALCIUM NITRATE	SX	53.24	5/6/2010		8.0		95.0	425.92	5,590.20

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/5/2010, Report # 82.0, DFS: 79.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,842.00	2,860.00	18.00	6.50	2.8	4,164.21	247,347.54

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
06:15	Gel-Chem	2,844.00	1135.0	57	16.0	9.100	4.000	6.000	7.0	8.5	6.9

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	PAILS	231.78	5/5/2010		2.0		28.0	463.56	927.12
STEEL SEAL 100	SX	236.21	5/5/2010		2.0		38.0	472.42	2,834.52
BARITE	SX	27.08	5/5/2010		72.0		3,053.0	1,949.76	77,692.52
EZ MUD DP	PAILS	231.78	5/5/2010		2.0		26.0	463.56	1,390.68
STEEL SEAL 400	SX	236.21	5/5/2010		2.0		75.0	472.42	5,905.25
GEL	SX	11.81	5/5/2010		29.0		427.0	342.49	17,065.45

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/4/2010, Report # 81.0, DFS: 78.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,811.00	2,842.00	29.00	19.25	1.5	3,847.31	243,183.33

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
17:30	Gel-Chem	2,837.00	1135.0	57	16.0	9.600	4.000	7.000	6.8	9.0	6.9

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	5/4/2010		0.0		174.0	0.00	4,791.00
CAUSTIC	SX	47.91	5/4/2010		1.0		173.0	47.91	4,838.91
EZ MUD DP	PAILS	231.78	5/4/2010	32.0	2.0		30.0	463.56	463.56
PAC R	SX	157.31	5/4/2010		2.0		29.0	314.62	11,169.01
CARBONOX	SX	18.67	5/4/2010		2.0		34.0	37.34	2,035.03
CARBONOX	SX	18.67	5/4/2010		3.0		31.0	56.01	2,091.04
BARATHIN	SX	82.39	5/4/2010		4.0		4.0	329.56	1,730.19
STEEL SEAL 400	SX	236.21	5/4/2010		11.0		77.0	2,598.31	5,432.83

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/3/2010, Report # 80.0, DFS: 77.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,767.00	2,811.00	25.00	10.25	2.4	6,657.97	239,336.02

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
15:00	Gel-Chem	2,811.00	1135.0	55	16.0	7.900	1.500	7.000	8.7	10.0	6.9

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ALKAPAM A1103D	SX	246.36	5/3/2010		1.0		30.0	246.36	2,463.60
PAC R	SX	157.31	5/3/2010		3.0		34.0	471.93	10,382.46
LIME	SX	11.36	5/3/2010		4.0		146.0	45.44	443.04
CALCIUM NITRATE	SX	53.24	5/3/2010		4.0		103.0	212.96	5,164.28
CAL CARB 325	SX	11.97	5/3/2010		4.0		50.0	47.88	71.82
SAWDUST	SX	6.93	5/3/2010		35.0		415.0	242.55	1,801.80
PAC R	SX	157.31	5/3/2010		3.0		31.0	471.93	10,854.39
LIME	SX	11.36	5/3/2010		4.0		142.0	45.44	488.48
CARBONOX	SX	18.67	5/3/2010		4.0		36.0	74.68	1,997.69
CAL CARB 325	SX	11.97	5/3/2010		8.0		42.0	95.76	167.58
STEEL SEAL 400	SX	236.21	5/3/2010		12.0		88.0	2,834.52	2,834.52
BARITE	SX	27.08	5/3/2010	3,234.0	69.0		3,125.0	1,868.52	75,742.76

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/2/2010, Report # 79.0, DFS: 76.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,690.00	2,767.00	77.00	10.00	7.7	3,992.70	232,678.05

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,767.00	1130.0	53		6.200	1.417			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	5/2/2010		1.0		37.0	157.31	9,910.53
CARBONOX	SX	18.67	5/2/2010		1.0		40.0	18.67	1,923.01
PAC L	SX	157.31	5/2/2010	40.0	2.0		0.0	314.62	9,438.60
LIME	SX	11.36	5/2/2010		2.0		153.0	22.72	363.52
STEEL SEAL 100	SX	236.21	5/2/2010		10.0		40.0	2,362.10	2,362.10
LIME	SX	11.36	5/2/2010		3.0		150.0	34.08	397.60
BARITE	SX	27.08	5/2/2010		40.0		-40.0	1,083.20	73,874.24

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 5/1/2010, Report # 78.0, DFS: 75.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,574.00	2,690.00	90.00	16.50	5.5	2,654.60	228,685.35

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,660.00	1125.0	45		6.500	1.462			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	5/1/2010		2.0		157.0	22.72	318.08
CARBONOX	SX	18.67	5/1/2010		2.0		42.0	37.34	1,885.67
PAC L	SX	157.31	5/1/2010		6.0		-35.0	943.86	8,652.05
BARITE	SX	27.08	5/1/2010		42.0		0.0	1,137.36	72,791.04
CARBONOX	SX	18.67	5/1/2010		1.0		41.0	18.67	1,904.34
LIME	SX	11.36	5/1/2010		2.0		155.0	22.72	340.80
PAC L	SX	157.31	5/1/2010		3.0		-38.0	471.93	9,123.98

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/30/2010, Report # 77.0, DFS: 74.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,494.00	2,574.00	64.00	21.25	3.0	1,427.46	226,030.75

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,553.00	1120.0	45		5.300	2.000			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	4/30/2010		2.0		160.0	22.72	284.00
CARBONOX	SX	18.67	4/30/2010		2.0		45.0	37.34	1,829.66
PAC L	SX	157.31	4/30/2010		4.0		-26.0	629.24	7,236.26
GEL	SX	11.81	4/30/2010		20.0		456.0	236.20	16,722.96
LIME	SX	11.36	4/30/2010		1.0		159.0	11.36	295.36
CARBONOX	SX	18.67	4/30/2010		1.0		44.0	18.67	1,848.33
PAC L	SX	157.31	4/30/2010		3.0		-29.0	471.93	7,708.19

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/29/2010, Report # 76.0, DFS: 73.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,467.00	2,494.00	27.00	9.75	2.8	686.64	224,603.29

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,485.00	1110.0	43		6.200	1.480			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	4/29/2010		1.0		162.0	11.36	261.28
CAUSTIC	SX	47.91	4/29/2010		1.0		174.0	47.91	4,791.00
CARBONOX	SX	18.67	4/29/2010		2.0		47.0	37.34	1,792.32
PAC L	SX	157.31	4/29/2010		3.0		-22.0	471.93	6,607.02
GEL	SX	11.81	4/29/2010		10.0		476.0	118.10	16,486.76

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/28/2010, Report # 75.0, DFS: 72.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,396.00	2,467.00	205.00	21.25	9.6	807.40	223,916.65

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,450.00	1110.0	45		5.300	1.476			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	4/28/2010		1.0		164.0	11.36	238.56
LIME	SX	11.36	4/28/2010		1.0		163.0	11.36	249.92
CARBONOX	SX	18.67	4/28/2010		2.0		49.0	37.34	1,754.98
PAC L	SX	157.31	4/28/2010		4.0		-19.0	629.24	6,135.09
GEL	SX	11.81	4/28/2010		10.0		486.0	118.10	16,368.66

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/27/2010, Report # 74.0, DFS: 71.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,319.00	2,396.00	77.00	21.00	3.7	10,457.96	223,109.25

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,381.00	1110.0	45	12.0	5.700	-0.500			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	4/27/2010		1.0		177.0	47.91	4,647.27
BARAZAN	SX	184.89	4/27/2010		4.0		115.0	739.56	23,111.25
PAC L	SX	157.31	4/27/2010		8.0		-9.0	1,258.48	4,561.99
CARBONOX	SX	18.67	4/27/2010		8.0		52.0	149.36	1,698.97
BARA DEFOAM HP	EA	354.39	4/27/2010		13.0		8.0	4,607.07	5,315.85
BICARB	SX	33.71	4/27/2010		55.0		0.0	1,854.05	2,764.22
LIME	SX	11.36	4/27/2010		1.0		165.0	11.36	227.20
CARBONOX	SX	18.67	4/27/2010		1.0		51.0	18.67	1,717.64
CAUSTIC	SX	47.91	4/27/2010		2.0		175.0	95.82	4,743.09
BARAZAN	SX	184.89	4/27/2010		3.0		112.0	554.67	23,665.92
PAC L	SX	157.31	4/27/2010		6.0		-15.0	943.86	5,505.85
GEL	SX	11.81	4/27/2010		15.0		496.0	177.15	16,250.56

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/26/2010, Report # 73.0, DFS: 70.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,298.00	2,319.00	21.00	7.50	2.8	4,084.64	212,651.29

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,308.00	1110.0	42		4.300	1.500			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARA DEFOAM HP	EA	354.39	4/26/2010		2.0		21.0	708.78	708.78
BICARB	SX	33.71	4/26/2010		6.0		55.0	202.26	910.17
CITRIC ACID	SX	158.68	4/26/2010		20.0		7.0	3,173.60	6,029.84

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/25/2010, Report # 72.0, DFS: 69.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,298.00	2,298.00	0.00			317.36	208,566.65

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,298.00	1100.0	42			0.167			0.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CITRIC ACID	SX	158.68	4/25/2010		2.0		27.0	317.36	2,856.24

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/24/2010, Report # 71.0, DFS: 68.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,298.00	2,298.00	0.00			1,006.90	208,249.29

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ALKAPAM A1103D	SX	246.36	4/24/2010		1.0		31.0	246.36	2,217.24
CALCIUM NITRATE	SX	53.24	4/24/2010		5.0		107.0	266.20	4,951.32
BARATHIN	SX	82.39	4/24/2010		6.0		8.0	494.34	1,400.63

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/23/2010, Report # 70.0, DFS: 67.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,298.00	2,298.00	0.00			23,149.84	207,242.39

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,292.00	1230.0	86		14.400			0.0	8.75	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE	SX	27.08	4/23/2010		116.0		84.0	3,141.28	70,516.32
BARITE	SX	27.08	4/23/2010		42.0		42.0	1,137.36	71,653.68
LUBRA GLIDE	SX	393.15	4/23/2010		48.0		0.0	18,871.20	18,871.20

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/22/2010, Report # 69.0, DFS: 66.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,298.00	2,298.00	0.00			2,274.72	184,092.55

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,298.00	1225.0	72	17.0	13.900	1.219			8.75	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE	SX	27.08	4/22/2010		84.0		200.0	2,274.72	67,375.04

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/21/2010, Report # 68.0, DFS: 65.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,298.00	2,298.00	0.00				181,817.83

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,298.00	1220.0	107		18.700	8.000		1.0	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/20/2010, Report # 67.0, DFS: 64.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,298.00	2,298.00	0.00			1,137.36	181,817.83

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,298.00	1220.0	90		21.100	2.000			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE	SX	27.08	4/20/2010		42.0		284.0	1,137.36	65,100.32

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/19/2010, Report # 66.0, DFS: 63.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,264.00	2,298.00	34.00	12.75	2.7	7,261.37	180,680.47

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,298.00	1225.0	90	90.0	21.100	0.400			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	4/19/2010		1.0		39.0	157.31	9,595.91
CARBONOX	SX	18.67	4/19/2010		2.0		62.0	37.34	1,512.27
BARITE	SX	27.08	4/19/2010		168.0		410.0	4,549.44	61,688.24
CAUSTIC	SX	47.91	4/19/2010		1.0		178.0	47.91	4,599.36
PAC R	SX	157.31	4/19/2010		1.0		38.0	157.31	9,753.22
CARBONOX	SX	18.67	4/19/2010		2.0		60.0	37.34	1,549.61
BARITE	SX	27.08	4/19/2010		84.0		326.0	2,274.72	63,962.96

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/18/2010, Report # 65.0, DFS: 62.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,217.00	2,264.00	47.00	21.75	2.2	5,034.56	173,419.10

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,255.00	1210.0	63	19.0	13.400	0.400			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	4/18/2010		1.0		180.0	47.91	4,503.54
PAC R	SX	157.31	4/18/2010		1.0		41.0	157.31	9,281.29
CARBONOX	SX	18.67	4/18/2010		2.0		66.0	37.34	1,437.59
BARITE	SX	27.08	4/18/2010		168.0		578.0	4,549.44	57,138.80
CAUSTIC	SX	47.91	4/18/2010		1.0		179.0	47.91	4,551.45
PAC R	SX	157.31	4/18/2010		1.0		40.0	157.31	9,438.60
CARBONOX	SX	18.67	4/18/2010		2.0		64.0	37.34	1,474.93

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/17/2010, Report # 64.0, DFS: 61.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,179.00	2,217.00	38.00	18.75	2.0	12,538.36	168,384.54

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem		1190.0	63	18.0	13.400		1.391	0.0	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	4/17/2010		1.0		1.0	231.78	8,344.08
CLAY SYNC	SX	386.36	4/17/2010		1.0		30.0	386.36	11,590.80
BARAFOS	SX	97.10	4/17/2010		1.0		12.0	97.10	291.30
CAUSTIC	SX	47.91	4/17/2010		2.0		182.0	95.82	4,407.72
GEL	SX	11.81	4/17/2010		40.0		511.0	472.40	16,073.41
BARITE	SX	27.08	4/17/2010		273.0		378.0	7,392.84	50,043.84
EZ MUD DP	SX	231.78	4/17/2010	4.0	1.0		4.0	231.78	8,575.86
CLAY SYNC	SX	386.36	4/17/2010		1.0		29.0	386.36	11,977.16
CAUSTIC	SX	47.91	4/17/2010		1.0		181.0	47.91	4,455.63
PAC R	SX	157.31	4/17/2010		1.0		2.0	157.31	9,123.98
CARBONOX	SX	18.67	4/17/2010		2.0		68.0	37.34	1,400.25
BARITE	SX	27.08	4/17/2010		94.0		284.0	2,545.52	52,589.36
BARA DEFOAM HP	EA	354.39	4/17/2010	23.0			23.0		0.00
BARATHIN	SX	82.39	4/17/2010		2.0		14.0	164.78	906.29
BARATROL PLUS	SX	136.16	4/17/2010	50.0			53.0		20,015.52
BARAZAN	SX	184.89	4/17/2010	80.0			119.0		22,371.69
BARITE	SX	27.08	4/17/2010	462.0			746.0		52,589.36
CAL CARB '0'	SX	11.97	4/17/2010				0.0		670.32
CITRIC ACID	SX	158.68	4/17/2010	20.0			29.0		2,538.88
LIME	SX	11.36	4/17/2010	50.0			166.0		215.84
PAC R	SX	157.31	4/17/2010	40.0			42.0		9,123.98
SAWDUST	SX	6.93	4/17/2010	150.0	42.0		450.0	291.06	1,559.25
XL-DEFOAMER	PAILS	354.39	4/17/2010	32.0			32.0		0.00
LUBRA GLIDE	SX	393.15	4/17/2010	48.0			48.0		0.00
KONTROL	SX	131.16	4/17/2010	53.0			53.0		0.00
STEEL SEAL 400	SX	236.21	4/17/2010	100.0			100.0		0.00
STEEL SEAL 100	SX	236.21	4/17/2010	50.0			50.0		0.00

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/16/2010, Report # 63.0, DFS: 60.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,179.00	2,179.00	0.00				155,846.18

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,179.00	1180.0	62	17.0	13.900	6.000	13.000	8.0	9.0	4.1

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/15/2010, Report # 62.0, DFS: 59.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,162.00	2,179.00	17.00	10.00	1.7	6,003.15	155,846.18

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,178.00	1180.0	69	20.0	13.300	6.000	16.000	7.2	9.0	4.1

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	4/15/2010		1.0		3.0	157.31	8,966.67
CAUSTIC	SX	47.91	4/15/2010		2.0		184.0	95.82	4,311.90
CARBONOX	SX	18.67	4/15/2010	63.0	2.0		70.0	37.34	1,362.91
GEL	SX	11.81	4/15/2010		32.0		551.0	377.92	15,601.01
BARITE	SX	27.08	4/15/2010		197.0		651.0	5,334.76	42,651.00

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/14/2010, Report # 61.0, DFS: 58.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,116.00	2,162.00	46.00	22.00	2.1	4,276.32	149,843.03

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,158.00	1180.0	58	23.0	10.500	5.000	13.000	8.0	9.0	4.1

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	4/14/2010		1.0		187.0	47.91	4,168.17
PAC R	SX	157.31	4/14/2010		1.0		5.0	157.31	8,652.05
CARBONOX	SX	18.67	4/14/2010		2.0		11.0	37.34	1,288.23
CAUSTIC	SX	47.91	4/14/2010		1.0		186.0	47.91	4,216.08
PAC R	SX	157.31	4/14/2010		1.0		4.0	157.31	8,809.36
CARBONOX	SX	18.67	4/14/2010		2.0		9.0	37.34	1,325.57
BARITE	SX	27.08	4/14/2010		140.0		848.0	3,791.20	37,316.24

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/13/2010, Report # 60.0, DFS: 57.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,072.00	2,116.00	37.00	21.00	1.8	2,757.47	145,566.71

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,113.00	1180.0	66	23.0	11.500	5.500	14.000	7.6	9.0	4.1

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	4/13/2010		1.0		116.0	11.36	215.84
CAUSTIC	SX	47.91	4/13/2010		1.0		188.0	47.91	4,120.26
PAC R	SX	157.31	4/13/2010		1.0		6.0	157.31	8,494.74
CARBONOX	SX	18.67	4/13/2010		2.0		13.0	37.34	1,250.89
EZ MUD DP	SX	231.78	4/13/2010	5.0	2.0		2.0	463.56	8,112.30
CLAY SYNC	SX	386.36	4/13/2010	10.0	2.0		31.0	772.72	11,204.44
GEL	SX	11.81	4/13/2010		11.0		583.0	129.91	15,223.09
BARITE	SX	27.08	4/13/2010		42.0		988.0	1,137.36	33,525.04

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/12/2010, Report # 59.0, DFS: 56.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,056.00	2,071.00	15.00	7.75	1.9	958.21	142,809.24

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	4/12/2010		2.0		117.0	22.72	204.48
CAUSTIC	SX	47.91	4/12/2010		2.0		189.0	95.82	4,072.35
PAC R	SX	157.31	4/12/2010		2.0		8.0	314.62	8,180.12
CAL CARB 325	SX	11.97	4/12/2010		2.0		54.0	23.94	23.94
CARBONOX	SX	18.67	4/12/2010		4.0		17.0	74.68	1,176.21
EZ MUD DP	SX	231.78	4/12/2010		1.0		-1.0	231.78	7,648.74
PAC R	SX	157.31	4/12/2010		1.0		7.0	157.31	8,337.43
CARBONOX	SX	18.67	4/12/2010		2.0		15.0	37.34	1,213.55

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/11/2010, Report # 58.0, DFS: 55.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,044.00	2,056.00	12.00	6.00	2.0	11,395.01	141,851.03

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,056.00	1190.0	61	19.0	11.000	5.000	15.000	8.0		

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
SODA ASH	SX	25.48	4/11/2010		2.0		44.0	50.96	152.88
EZ MUD DP	SX	231.78	4/11/2010		1.0		0.0	231.78	7,416.96
BARAZAN	SX	184.89	4/11/2010		1.0		39.0	184.89	22,371.69
LIME	SX	11.36	4/11/2010		2.0		119.0	22.72	181.76
CAUSTIC	SX	47.91	4/11/2010		2.0		191.0	95.82	3,976.53
PAC R	SX	157.31	4/11/2010		2.0		10.0	314.62	7,865.50
CARBONOX	SX	18.67	4/11/2010		2.0		21.0	37.34	1,101.53
BARITE	SX	27.08	4/11/2010		325.0		1,030.0	8,801.00	32,387.68
D-AIR 3000	EA	827.94	4/11/2010	4.0	2.0		2.0	1,655.88	1,655.88

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/10/2010, Report # 57.0, DFS: 54.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
2,035.00	2,044.00	9.00	4.50	2.0	2,868.07	130,456.02

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,044.00	1145.0	55		10.000			8.0		

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	4/10/2010		2.0		12.0	314.62	7,550.88
CARBONOX	SX	18.67	4/10/2010		4.0		23.0	74.68	1,064.19
BARITE	SX	27.08	4/10/2010		42.0		1,355.0	1,137.36	23,586.68
ZETAG 7692	SX	828.85	4/10/2010		1.0		9.0	828.85	828.85
ALKAPAM A1103D	SX	246.36	4/10/2010		1.0		32.0	246.36	1,970.88
CALCIUM NITRATE	SX	53.24	4/10/2010		5.0		112.0	266.20	4,685.12

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/9/2010, Report # 56.0, DFS: 53.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,992.00	2,035.00	43.00	21.75	2.0	1,522.91	127,587.95

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	2,029.00	1150.0	76	20.0	11.500	5.000	5.000	8.4	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC L	SX	157.31	4/9/2010		2.0		4.0	314.62	2,516.96
CARBONOX	SX	18.67	4/9/2010		2.0		32.0	37.34	896.16
EZ MUD DP	SX	231.78	4/9/2010		1.0		1.0	231.78	7,185.18
LIME	SX	11.36	4/9/2010		1.0		121.0	11.36	159.04
CAUSTIC	SX	47.91	4/9/2010		1.0		193.0	47.91	3,880.71
PAC L	SX	157.31	4/9/2010		5.0		-1.0	786.55	3,303.51
CARBONOX	SX	18.67	4/9/2010		5.0		27.0	93.35	989.51

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/8/2010, Report # 55.0, DFS: 52.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,972.00	1,992.00	20.00	10.75	1.9	1,054.24	126,065.04

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,987.00	1135.0	61	16.0	8.600	3.500	20.000	8.4	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	4/8/2010		1.0		123.0	11.36	136.32
CAUSTIC	SX	47.91	4/8/2010		1.0		195.0	47.91	3,784.89
PAC L	SX	157.31	4/8/2010		2.0		8.0	314.62	1,887.72
CARBONOX	SX	18.67	4/8/2010		2.0		36.0	37.34	821.48
EZ MUD DP	SX	231.78	4/8/2010		1.0		2.0	231.78	6,953.40
LIME	SX	11.36	4/8/2010		1.0		122.0	11.36	147.68
CAUSTIC	SX	47.91	4/8/2010		1.0		194.0	47.91	3,832.80
PAC L	SX	157.31	4/8/2010		2.0		6.0	314.62	2,202.34
CARBONOX	SX	18.67	4/8/2010		2.0		34.0	37.34	858.82

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/7/2010, Report # 54.0, DFS: 51.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,912.00	1,948.00	36.00	21.50	1.7	1,158.11	125,010.80

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
20:30	Gel-Chem	1,933.00	1140.0	52	20.0	7.700	4.500	20.000	8.0	9.5	5.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	4/7/2010		1.0		4.0	231.78	6,489.84
LIME	SX	11.36	4/7/2010		1.0		126.0	11.36	102.24
CAUSTIC	SX	47.91	4/7/2010		1.0		198.0	47.91	3,641.16
BARATHIN	SX	82.39	4/7/2010		2.0		16.0	164.78	741.51
EZ MUD DP	SX	231.78	4/7/2010		1.0		3.0	231.78	6,721.62
PAC L	SX	157.31	4/7/2010		2.0		10.0	314.62	1,573.10
LIME	SX	11.36	4/7/2010		2.0		124.0	22.72	124.96
CAUSTIC	SX	47.91	4/7/2010		2.0		196.0	95.82	3,736.98
CARBONOX	SX	18.67	4/7/2010		2.0		38.0	37.34	784.14

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/6/2010, Report # 53.0, DFS: 50.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,908.00	1,912.00	4.00	3.25	1.2	1,196.63	123,852.69

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
20:30	Gel-Chem	1,912.00	1155.0	52	17.0	8.600	4.000	10.000	6.8	8.5	5.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE	SX	27.08	4/6/2010		42.0		1,397.0	1,137.36	22,449.32
LIME	SX	11.36	4/6/2010		1.0		127.0	11.36	90.88
CAUSTIC	SX	47.91	4/6/2010		1.0		199.0	47.91	3,593.25

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/5/2010, Report # 52.0, DFS: 49.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,863.00	1,908.00	45.00	21.75	2.1	1,712.40	122,656.06

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
20:30	Gel-Chem	1,902.00	1150.0	66	21.0	13.400	5.000	22.000	7.2	8.5	5.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	4/5/2010		1.0		128.0	11.36	79.52
CAUSTIC	SX	47.91	4/5/2010		1.0		200.0	47.91	3,545.34
BARATROL PLUS	SX	136.16	4/5/2010		1.0		3.0	136.16	20,015.52
PAC R	SX	157.31	4/5/2010		1.0		14.0	157.31	7,236.26
CARBONOX	SX	18.67	4/5/2010		2.0		40.0	37.34	746.80
CLAY SYNC	SX	386.36	4/5/2010		1.0		23.0	386.36	10,431.72
EZ MUD DP	SX	231.78	4/5/2010		2.0		5.0	463.56	6,258.06
GEL	SX	11.81	4/5/2010		40.0		594.0	472.40	15,093.18

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/4/2010, Report # 51.0, DFS: 48.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,799.00	1,863.00	64.00	21.75	2.9	7,029.02	120,943.66

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
23:00	Gel-Chem	1,861.00	1140.0	55	19.0	10.100	4.000	16.000	7.6	8.5	4.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	4/4/2010		1.0		8.0	231.78	5,562.72
LIME	SX	11.36	4/4/2010		1.0		130.0	11.36	56.80
CAUSTIC	SX	47.91	4/4/2010		1.0		215.0	47.91	2,826.69
BARATROL PLUS	SX	136.16	4/4/2010		1.0		10.0	136.16	19,062.40
BARATROL PLUS	SX	136.16	4/4/2010		3.0		7.0	408.48	19,470.88
CAUSTIC	SX	47.91	4/4/2010		13.0		202.0	622.83	3,449.52
EZ MUD DP	SX	231.78	4/4/2010		1.0		7.0	231.78	5,794.50
LIME	SX	11.36	4/4/2010		1.0		129.0	11.36	68.16
CAUSTIC	SX	47.91	4/4/2010		1.0		201.0	47.91	3,497.43
BARATROL PLUS	SX	136.16	4/4/2010		3.0		4.0	408.48	19,879.36
GEL	SX	11.81	4/4/2010		30.0		677.0	354.30	14,112.95
GEL	SX	11.81	4/4/2010		43.0		634.0	507.83	14,620.78
BICARB	SX	33.71	4/4/2010	42.0			61.0		707.91
BARITE	SX	27.08	4/4/2010		28.0		1,439.0	758.24	21,311.96
CALCIUM NITRATE	SX	53.24	4/4/2010		3.0		117.0	159.72	4,418.92
CLAY SYNC	SX	386.36	4/4/2010		8.0		24.0	3,090.88	10,045.36

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/3/2010, Report # 50.0, DFS: 47.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,741.00	1,799.00	58.00	21.50	2.7	1,412.98	113,914.64

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
20:30	Gel-Chem	1,792.00	1140.0	64	21.0	10.100	4.500	15.500	6.0	8.5	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	4/3/2010		1.0		9.0	231.78	5,330.94
CLAY SYNC	SX	386.36	4/3/2010		2.0		32.0	772.72	6,954.48
BARATROL PLUS	SX	136.16	4/3/2010		3.0		11.0	408.48	18,926.24

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/2/2010, Report # 49.0, DFS: 46.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,701.00	1,741.00	40.00	13.25	3.0	2,463.57	112,501.66

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
21:00	Gel-Chem	1,732.00	1145.0	59	19.0	10.100	4.000	16.000	6.0	9.0	5.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	4/2/2010		1.0		15.0	157.31	7,078.95
CARBONOX	SX	18.67	4/2/2010		1.0		42.0	18.67	709.46
BARATROL PLUS	SX	136.16	4/2/2010		3.0		17.0	408.48	18,109.28
BARITE	SX	27.08	4/2/2010		35.0		1,467.0	947.80	20,553.72
LIME	SX	11.36	4/2/2010	135.0	1.0		131.0	11.36	45.44
CAUSTIC	SX	47.91	4/2/2010		1.0		216.0	47.91	2,778.78
EZ MUD DP	SX	231.78	4/2/2010		2.0		10.0	463.56	5,099.16
BARATROL PLUS	SX	136.16	4/2/2010		3.0		14.0	408.48	18,517.76

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 4/1/2010, Report # 48.0, DFS: 45.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,641.00	1,701.00	57.00	20.25	2.8	2,478.36	110,038.09

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
21:00	Gel-Chem	1,700.00	1140.0	59	17.0	8.600	4.500	21.000	7.6	9.0	5.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
LIME	SX	11.36	4/1/2010		1.0		-1.0	11.36	11.36
CAUSTIC	SX	47.91	4/1/2010	214.0	2.0		219.0	95.82	2,635.05
CALCIUM NITRATE	SX	53.24	4/1/2010	120.0	3.0		120.0	159.72	4,259.20
BARATROL PLUS	SX	136.16	4/1/2010		3.0		23.0	408.48	17,292.32
BARITE	SX	27.08	4/1/2010		30.0		1,502.0	812.40	19,605.92
EZ MUD DP	SX	231.78	4/1/2010		2.0		12.0	463.56	4,635.60
LIME	SX	11.36	4/1/2010		2.0		-3.0	22.72	34.08
CAUSTIC	SX	47.91	4/1/2010		2.0		217.0	95.82	2,730.87
BARATROL PLUS	SX	136.16	4/1/2010		3.0		20.0	408.48	17,700.80

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/31/2010, Report # 47.0, DFS: 44.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,579.00	1,641.00	62.00	21.50	2.9	2,387.52	107,559.73

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,635.00	1120.0	60	16.0	9.100	4.500	18.000	7.2	8.0	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	3/31/2010		2.0		16.0	314.62	6,921.64
CARBONOX	SX	18.67	3/31/2010		2.0		43.0	37.34	690.79
BARATROL PLUS	SX	136.16	3/31/2010		3.0		29.0	408.48	16,475.36
BARATROL PLUS	SX	136.16	3/31/2010		3.0		26.0	408.48	16,883.84
BARITE	SX	27.08	3/31/2010		45.0		1,532.0	1,218.60	18,793.52

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/30/2010, Report # 46.0, DFS: 43.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,552.00	1,552.00	0.00			1,384.90	105,172.21

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
21:00	Gel-Chem	1,574.00	1120.0	55	15.0	8.100	5.000	18.000	8.0	8.0	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARATHIN	SX	82.39	3/30/2010		2.0		18.0	164.78	576.73
BARITE	SX	27.08	3/30/2010		35.0		1,577.0	947.80	17,574.92
BARATROL PLUS	SX	136.16	3/30/2010		2.0		32.0	272.32	16,066.88

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/29/2010, Report # 45.0, DFS: 42.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,503.00	1,552.00	49.00	21.75	2.3	2,906.53	103,787.31

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,551.00	1115.0	66	15.0	9.600	5.000	24.000	6.8	8.5	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/29/2010		1.0		7.0	47.91	2,539.23
CALCIUM NITRATE	SX	53.24	3/29/2010		3.0		3.0	159.72	4,099.48
BARATROL PLUS	SX	136.16	3/29/2010		3.0		37.0	408.48	15,386.08
PAC R	SX	157.31	3/29/2010		3.0		18.0	471.93	6,607.02
BARITE	SX	27.08	3/29/2010		21.0		1,641.0	568.68	15,841.80
BARATROL PLUS	SX	136.16	3/29/2010		3.0		34.0	408.48	15,794.56
CARBONOX	SX	18.67	3/29/2010		3.0		45.0	56.01	653.45
BARITE	SX	27.08	3/29/2010		29.0		1,612.0	785.32	16,627.12

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/28/2010, Report # 44.0, DFS: 41.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,433.00	1,503.00	70.00	20.75	3.4	2,193.87	100,880.78

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,492.00	1120.0	71	17.0	8.600	5.500	15.000	8.0	9.0	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/28/2010		1.0		10.0	47.91	2,395.50
CALCIUM NITRATE	SX	53.24	3/28/2010		3.0		9.0	159.72	3,780.04
EZ MUD DP	SX	231.78	3/28/2010		1.0		14.0	231.78	4,172.04
CLAY SYNC	SX	386.36	3/28/2010		1.0		34.0	386.36	6,181.76
CAUSTIC	SX	47.91	3/28/2010		2.0		8.0	95.82	2,491.32
CALCIUM NITRATE	SX	53.24	3/28/2010		3.0		6.0	159.72	3,939.76
BARATROL PLUS	SX	136.16	3/28/2010		3.0		40.0	408.48	14,977.60
BARITE	SX	27.08	3/28/2010		26.0		1,662.0	704.08	15,273.12

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/27/2010, Report # 43.0, DFS: 40.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,423.00	1,433.00	10.00	13.75	0.7	2,039.52	98,686.91

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,429.00	1120.0	60	18.0	10.100	5.000	18.000	7.0	8.2	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/27/2010		1.0		13.0	47.91	2,251.77
CALCIUM NITRATE	SX	53.24	3/27/2010		3.0		15.0	159.72	3,460.60
BARATROL PLUS	SX	136.16	3/27/2010		3.0		46.0	408.48	14,160.64
BARATHIN	SX	82.39	3/27/2010		1.0		20.0	82.39	411.95
CAUSTIC	SX	47.91	3/27/2010		2.0		11.0	95.82	2,347.59
CALCIUM NITRATE	SX	53.24	3/27/2010		3.0		12.0	159.72	3,620.32
BARATROL PLUS	SX	136.16	3/27/2010		3.0		43.0	408.48	14,569.12
BARITE	SX	27.08	3/27/2010		25.0		1,688.0	677.00	14,569.04

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/26/2010, Report # 42.0, DFS: 39.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,386.00	1,423.00	37.00	12.50	3.0	568.20	96,647.39

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
21:00	Gel-Chem	1,421.00	1125.0	68	17.0	11.000	5.000	19.000	7.6	8.2	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CALCIUM NITRATE	SX	53.24	3/26/2010		3.0		18.0	159.72	3,300.88
BARATROL PLUS	SX	136.16	3/26/2010		3.0		49.0	408.48	13,752.16

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/25/2010, Report # 41.0, DFS: 38.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,371.00	1,386.00	15.00	7.25	2.1	1,265.27	96,079.19

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
08:00	Gel-Chem	1,386.00	1125.0	60	18.0	9.600	5.000	14.000	6.0	8.5	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/25/2010		1.0		14.0	47.91	2,203.86
BARATROL PLUS	SX	136.16	3/25/2010		2.0		52.0	272.32	13,343.68
CALCIUM NITRATE	SX	53.24	3/25/2010		3.0		21.0	159.72	3,141.16
BARITE	SX	27.08	3/25/2010		29.0		1,713.0	785.32	13,892.04

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/24/2010, Report # 40.0, DFS: 37.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,328.00	1,371.00	43.00	22.00	2.0	2,475.65	94,813.92

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
20:00	Gel-Chem	1,365.00	1130.0	60	20.0	10.500	3.500	10.000	6.4	8.5	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/24/2010		2.0		16.0	95.82	2,108.04
BARATROL PLUS	SX	136.16	3/24/2010		2.0		56.0	272.32	12,799.04
BARITE	SX	27.08	3/24/2010		42.0		1,766.0	1,137.36	12,456.80
CAUSTIC	SX	47.91	3/24/2010		1.0		15.0	47.91	2,155.95
BARATROL PLUS	SX	136.16	3/24/2010		2.0		54.0	272.32	13,071.36
BARITE	SX	27.08	3/24/2010		24.0		1,742.0	649.92	13,106.72

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/23/2010, Report # 39.0, DFS: 36.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,294.00	1,328.00	34.00	17.00	2.0	2,102.70	92,338.27

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
20:00	Gel-Chem	1,323.00	1110.0	55	21.0	5.300	3.500	9.000	6.8	8.3	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE	SX	27.08	3/23/2010		25.0		1,820.0	677.00	10,994.48
CALCIUM NITRATE	SX	53.24	3/23/2010		1.0		24.0	53.24	2,981.44
CAUSTIC	SX	47.91	3/23/2010		1.0		18.0	47.91	2,012.22
CARBONOX	SX	18.67	3/23/2010		1.0		48.0	18.67	597.44
BARATROL PLUS	SX	136.16	3/23/2010		2.0		58.0	272.32	12,526.72
BARITE	SX	27.08	3/23/2010		12.0		1,808.0	324.96	11,319.44
GEL	SX	11.81	3/23/2010	72.0	60.0		707.0	708.60	13,758.65

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/22/2010, Report # 38.0, DFS: 35.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,269.00	1,283.00	14.00	6.75	2.1	53.24	90,235.57

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
12:30	Gel-Chem	1,286.00	1120.0	57	19.0	10.500	4.000	8.000	6.0	8.5	4.7

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CALCIUM NITRATE	SX	53.24	3/22/2010		1.0		25.0	53.24	2,928.20

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/21/2010, Report # 37.0, DFS: 34.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,210.00	1,269.00	59.00	22.00	2.7	3,922.11	90,182.33

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
16:40	Gel-Chem	1,254.00	1125.0	54	14.0	8.900	3.500	9.000	6.4	8.7	6.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	3/21/2010		1.0		16.0	231.78	3,708.48
CAUSTIC	SX	47.91	3/21/2010		1.0		20.0	47.91	1,916.40
PAC R	SX	157.31	3/21/2010		1.0		21.0	157.31	6,135.09
CLAY SYNC	SX	386.36	3/21/2010		2.0		35.0	772.72	5,795.40
BARAZAN	SX	184.89	3/21/2010		2.0		40.0	369.78	22,186.80
CALCIUM NITRATE	SX	53.24	3/21/2010		3.0		26.0	159.72	2,874.96
BARATROL PLUS	SX	136.16	3/21/2010		10.0		60.0	1,361.60	12,254.40
EZ MUD DP	SX	231.78	3/21/2010		1.0		15.0	231.78	3,940.26
CAUSTIC	SX	47.91	3/21/2010		1.0		19.0	47.91	1,964.31
BARITE	SX	27.08	3/21/2010	630.0	20.0		1,845.0	541.60	10,317.48

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/20/2010, Report # 36.0, DFS: 33.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,157.00	1,210.00	53.00	20.75	2.6		86,260.22

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,198.00	1120.0	48	12.0	8.100	3.500	8.000	6.2	8.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/19/2010, Report # 35.0, DFS: 32.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,109.00	1,157.00	48.00	22.50	2.1	2,460.40	86,260.22

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,144.00	1140.0	52	14.0	8.100	3.500	7.000	6.2		

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	3/19/2010		1.0		17.0	231.78	3,476.70
CALCIUM NITRATE	SX	53.24	3/19/2010		2.0		33.0	106.48	2,502.28
CAUSTIC	SX	47.91	3/19/2010		3.0		21.0	143.73	1,868.49
MAGMA FIBRE FINE	SX	147.77	3/19/2010	160.0	5.0		155.0	738.85	738.85
BARAZAN	SX	184.89	3/19/2010		3.0		42.0	554.67	21,817.02
PAC R	SX	157.31	3/19/2010		3.0		22.0	471.93	5,977.78
CALCIUM NITRATE	SX	53.24	3/19/2010		4.0		29.0	212.96	2,715.24

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/18/2010, Report # 34.0, DFS: 31.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,076.00	1,109.00	33.00	12.25	2.7	4,394.81	83,799.82

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,096.00	1130.0	50	13.0	7.200	3.500	6.000	6.8	8.75	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CALCIUM NITRATE	SX	53.24	3/18/2010		2.0		37.0	106.48	2,289.32
BARITE	SX	27.08	3/18/2010	924.0	132.0		1,235.0	3,574.56	9,775.88
EZ MUD DP	SX	231.78	3/18/2010		2.0		18.0	463.56	3,244.92
CALCIUM NITRATE	SX	53.24	3/18/2010		2.0		35.0	106.48	2,395.80
CAUSTIC	SX	47.91	3/18/2010		3.0		24.0	143.73	1,724.76

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/17/2010, Report # 33.0, DFS: 30.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,036.00	1,076.00	40.00	18.25	2.2	13,193.49	79,405.01

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,078.00	1120.0	57	15.0	9.600	3.500	6.000	6.2	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CALCIUM NITRATE	SX	53.24	3/17/2010		1.0		41.0	53.24	2,076.36
CAUSTIC	SX	47.91	3/17/2010		1.0		30.0	47.91	1,437.30
PAC R	SX	157.31	3/17/2010		1.0		28.0	157.31	5,033.92
BARAZAN	SX	184.89	3/17/2010		2.0		51.0	369.78	20,153.01
PEBBLED LIME10	SX	30.00	3/17/2010	10.0	10.0		0.0	300.00	300.00
BARATROL PLUS	SX	136.16	3/17/2010		30.0		70.0	4,084.80	10,892.80
CARBONOX	SX	18.67	3/17/2010		1.0		49.0	18.67	578.77
CALCIUM NITRATE	SX	53.24	3/17/2010		2.0		39.0	106.48	2,182.84
CLAY SYNC	SX	386.36	3/17/2010		2.0		37.0	772.72	5,022.68
CAUSTIC	SX	47.91	3/17/2010		3.0		27.0	143.73	1,581.03
PAC R	SX	157.31	3/17/2010		3.0		25.0	471.93	5,505.85
BARAZAN	SX	184.89	3/17/2010		6.0		45.0	1,109.34	21,262.35
GEL	SX	11.81	3/17/2010		106.0		695.0	1,251.86	13,050.05
BARITE	SX	27.08	3/17/2010		159.0		443.0	4,305.72	6,201.32

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/16/2010, Report # 32.0, DFS: 29.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
1,030.00	1,036.00	6.00	7.00	0.9	951.93	66,211.52

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,036.00	1060.0	52	12.0	7.700	3.000	6.000	7.0	9.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/16/2010		1.0		31.0	47.91	1,389.39
PAC R	SX	157.31	3/16/2010		1.0		29.0	157.31	4,876.61
CALCIUM NITRATE	SX	53.24	3/16/2010		2.0		42.0	106.48	2,023.12
BARAZAN	SX	184.89	3/16/2010		2.0		53.0	369.78	19,783.23
CELLOPHANE	SX	54.09	3/16/2010		5.0		45.0	270.45	270.45

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/15/2010, Report # 31.0, DFS: 28.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
899.00	1,030.00	262.00	37.00	7.1	3,059.58	65,259.59

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	1,025.00	1070.0	48	11.0	6.700	2.500	3.500	8.0	8.75	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/15/2010		1.0		32.0	47.91	1,341.48
CARBONOX	SX	18.67	3/15/2010		3.0		50.0	56.01	560.10
CALCIUM NITRATE	SX	53.24	3/15/2010		5.0		44.0	266.20	1,916.64
PAC R	SX	157.31	3/15/2010		5.0		30.0	786.55	4,719.30
BARASEAL MEDIUM	SX	38.07	3/15/2010	150.0	5.0		145.0	190.35	190.35
SAWDUST	SX	6.93	3/15/2010		75.0		342.0	519.75	1,268.19
GEL	SX	11.81	3/15/2010	576.0	101.0		801.0	1,192.81	11,798.19

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/14/2010, Report # 30.0, DFS: 27.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
876.00	896.00	20.00	7.75	2.6	2,543.31	62,200.01

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
08:00	Gel-Chem	899.00	1050.0	46		5.300			0.0	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CALCIUM NITRATE	SX	53.24	3/14/2010		1.0		50.0	53.24	1,597.20
CAUSTIC	SX	47.91	3/14/2010		1.0		34.0	47.91	1,245.66
BARAZAN	SX	184.89	3/14/2010		9.0		55.0	1,664.01	19,413.45
CALCIUM NITRATE	SX	53.24	3/14/2010		1.0		49.0	53.24	1,650.44
CAUSTIC	SX	47.91	3/14/2010		1.0		33.0	47.91	1,293.57
BARITE	SX	27.08	3/14/2010		25.0		602.0	677.00	1,895.60

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/13/2010, Report # 29.0, DFS: 26.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
807.00	876.00	69.54	21.75	3.2	7,630.89	59,656.70

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
18:00	Gel-Chem	858.00	1050.0	51		5.700	-0.667		0.0	8.75	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC L	SX	157.31	3/13/2010		1.0		12.0	157.31	1,258.48
CARBONOX	SX	18.67	3/13/2010		1.0		54.0	18.67	485.42
BARATROL PLUS	SX	136.16	3/13/2010	150.0	25.0		125.0	3,404.00	3,404.00
CALCIUM NITRATE	SX	53.24	3/13/2010		1.0		51.0	53.24	1,543.96
CAUSTIC	SX	47.91	3/13/2010		1.0		35.0	47.91	1,197.75
PAC R	SX	157.31	3/13/2010		1.0		35.0	157.31	3,932.75
CARBONOX	SX	18.67	3/13/2010		1.0		53.0	18.67	504.09
BARAZAN	SX	184.89	3/13/2010		2.0		64.0	369.78	17,749.44
BARATROL PLUS	SX	136.16	3/13/2010		25.0		100.0	3,404.00	6,808.00

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/12/2010, Report # 28.0, DFS: 25.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
731.00	807.00	62.00	21.50	2.9	2,509.38	52,025.81

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
18:50	Gel-Chem	789.00	1060.0	44		5.700	1.000		0.0	9.25	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CARBONOX	SX	18.67	3/12/2010		1.0		58.0	18.67	410.74
CAUSTIC	SX	47.91	3/12/2010		2.0		37.0	95.82	1,101.93
PAC R	SX	157.31	3/12/2010		2.0		37.0	314.62	3,618.13
CLAY SYNC	SX	386.36	3/12/2010		1.0		39.0	386.36	4,249.96
CAUSTIC	SX	47.91	3/12/2010		1.0		36.0	47.91	1,149.84
PAC R	SX	157.31	3/12/2010		1.0		36.0	157.31	3,775.44
BARAZAN	SX	184.89	3/12/2010	80.0	2.0		66.0	369.78	17,379.66
CARBONOX	SX	18.67	3/12/2010		3.0		55.0	56.01	466.75
GEL	SX	11.81	3/12/2010		90.0		326.0	1,062.90	10,605.38

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/11/2010, Report # 27.0, DFS: 24.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
685.00	731.00	45.00	15.25	3.0	1,319.75	49,516.43

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
08:20	Gel-Chem	700.00	1045.0	45						9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CALCIUM NITRATE	SX	53.24	3/11/2010		1.0		52.0	53.24	1,490.72
CAUSTIC	SX	47.91	3/11/2010		1.0		39.0	47.91	1,006.11
BARITE	SX	27.08	3/11/2010		45.0		627.0	1,218.60	1,218.60

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/10/2010, Report # 26.0, DFS: 23.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
663.00	685.00	22.00	13.75	1.6	2,887.47	48,196.68

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	677.00	1045.0	44	10.0	5.500	1.429		0.0	8.7	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
GEL	SX	11.81	3/10/2010		25.0		479.0	295.25	8,798.45
PAC L	SX	157.31	3/10/2010		1.0		13.0	157.31	1,101.17
CAUSTIC	SX	47.91	3/10/2010		1.0		40.0	47.91	958.20
CLAY SYNC	SX	386.36	3/10/2010		2.0		40.0	772.72	3,863.60
BARAZAN	SX	184.89	3/10/2010		4.0		-12.0	739.56	17,009.88
CARBONOX	SX	18.67	3/10/2010		7.0		59.0	130.69	392.07
GEL	SX	11.81	3/10/2010		63.0		416.0	744.03	9,542.48

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/9/2010, Report # 25.0, DFS: 22.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
602.00	663.00	61.00	20.50	3.0	5,979.76	45,309.21

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	663.00	1050.0	47	12.0	6.200	0.667		1.0	0.0	0.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CITRIC ACID	SX	158.68	3/9/2010		16.0		9.0	2,538.88	2,538.88
CLAY SYNC	SX	386.36	3/9/2010		2.0		42.0	772.72	3,090.88
CAUSTIC	SX	47.91	3/9/2010		2.0		41.0	95.82	910.29
PAC R	SX	157.31	3/9/2010		6.0		39.0	943.86	3,303.51
BARAZAN	SX	184.89	3/9/2010		8.0		-8.0	1,479.12	16,270.32
CARBONOX	SX	18.67	3/9/2010		8.0		66.0	149.36	261.38

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/8/2010, Report # 24.0, DFS: 21.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
601.00	602.00	1.00	0.25	4.0	6,810.42	39,329.45

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	621.00	1040.0	45		3.400	0.500			9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/8/2010		1.0		43.0	47.91	814.47
SODA ASH	SX	25.48	3/8/2010		1.0		46.0	25.48	101.92
PAC L	SX	157.31	3/8/2010	20.0	6.0		14.0	943.86	943.86
CLAY SYNC	SX	386.36	3/8/2010		6.0		44.0	2,318.16	2,318.16
BARAZAN	SX	184.89	3/8/2010		8.0		0.0	1,479.12	14,791.20
GEL	SX	11.81	3/8/2010		169.0		504.0	1,995.89	8,503.20

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/7/2010, Report # 23.0, DFS: 20.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
601.20	601.20	0.00			4,266.38	32,519.03

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	601.00	1020.0	30						7.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CALCIUM NITRATE	SX	53.24	3/7/2010				80.0		0.00
ALKAPAM A1103D	SX	246.36	3/7/2010				40.0		0.00
ZETAG 7587	SX	395.59	3/7/2010				10.0		0.00
ZETAG 7587	SX	395.59	3/7/2010		2.0		8.0	791.18	791.18
SODA ASH	SX	25.48	3/7/2010	50.0	3.0		47.0	76.44	76.44
CARBONOX	SX	18.67	3/7/2010	80.0	6.0		74.0	112.02	112.02
ALKAPAM A1103D	SX	246.36	3/7/2010		7.0		33.0	1,724.52	1,724.52
SAWDUST	SX	6.93	3/7/2010		18.0		417.0	124.74	748.44
CALCIUM NITRATE	SX	53.24	3/7/2010		27.0		53.0	1,437.48	1,437.48

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/6/2010, Report # 22.0, DFS: 19.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
601.20	601.20	0.00			707.91	28,252.65

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARATHIN	SX	82.39	3/6/2010				21.0		329.56
BARITE	SX	27.08	3/6/2010	84.0			672.0		0.00
BICARB	SX	33.71	3/6/2010	5.0	21.0		19.0	707.91	707.91
CAUSTIC	SX	47.91	3/6/2010	4.0			44.0		766.56
CITRIC ACID	SX	158.68	3/6/2010	25.0			25.0		0.00
CLAY SYNC	SX	386.36	3/6/2010	50.0			50.0		0.00
HYDRO PLUG	SX	271.10	3/6/2010	160.0			160.0		0.00

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/5/2010, Report # 21.0, DFS: 18.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
589.00	601.20	12.20	5.25	2.3	295.25	27,544.74

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	601.00	1150.0	68	18.0	11.500	3.500	8.000	6.5	8.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
GEL	SX	11.81	3/5/2010	882.0	25.0		673.0	295.25	6,507.31

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/4/2010, Report # 20.0, DFS: 17.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
560.00	589.00	29.00	9.75	3.0	1,513.20	27,249.49

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	565.00	1150.0	52	15.0	7.200	3.000	3.500	7.0	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
GEL	SX	11.81	3/4/2010		18.0		-172.0	212.58	6,070.34
EZ MUD DP	SX	231.78	3/4/2010	4.0	5.0		20.0	1,158.90	2,781.36
GEL	SX	11.81	3/4/2010		12.0		-184.0	141.72	6,212.06

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/3/2010, Report # 19.0, DFS: 16.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
513.00	560.00	47.00	21.50	2.2	1,558.50	25,736.29

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	554.00	1150.0	57			3.000	4.000	6.2	8.75	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	3/3/2010		1.0		40.0	47.91	766.56
BARAZAN	SX	184.89	3/3/2010		7.0		8.0	1,294.23	13,312.08
PAC R	SX	157.31	3/3/2010	28.0	1.0		45.0	157.31	2,359.65
GEL	SX	11.81	3/3/2010		5.0		-154.0	59.05	5,857.76

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/2/2010, Report # 18.0, DFS: 15.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
483.00	513.00	30.00	15.75	1.9	1,599.01	24,177.79

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	501.00	1145.0	46	13.0	7.200	3.500	4.000	7.5	7.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	3/2/2010		1.0		21.0	231.78	1,622.46
BARAZAN	SX	184.89	3/2/2010		1.0		15.0	184.89	12,017.85
GEL	SX	11.81	3/2/2010		80.0		-137.0	944.80	5,656.99
CAUSTIC	SX	47.91	3/2/2010		2.0		41.0	95.82	718.65
GEL	SX	11.81	3/2/2010		12.0		-149.0	141.72	5,798.71

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 3/1/2010, Report # 17.0, DFS: 14.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
456.00	483.00	26.00	13.00	2.0	2,643.84	22,578.78

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	470.00	1150.0	44	10.0	6.200	2.500	3.000	6.6	8.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARAZAN	SX	184.89	3/1/2010		4.0		24.0	739.56	10,353.84
BARAZAN	SX	184.89	3/1/2010		8.0		16.0	1,479.12	11,832.96
GEL	SX	11.81	3/1/2010		36.0		-57.0	425.16	4,712.19

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/28/2010, Report # 16.0, DFS: 13.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
409.00	456.00	47.00	21.75	2.2	4,236.87	19,934.94

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	429.00	1175.0	46	14.0	8.100	3.500	4.500	6.0	9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	2/28/2010		1.0		22.0	231.78	1,390.68
CAUSTIC	SX	47.91	2/28/2010		2.0		45.0	95.82	527.01
BARAZAN	SX	184.89	2/28/2010		6.0		39.0	1,109.34	7,580.49
CAUSTIC	SX	47.91	2/28/2010		2.0		43.0	95.82	622.83
BARAZAN	SX	184.89	2/28/2010		11.0		28.0	2,033.79	9,614.28
CAL CARB '0'	SX	11.97	2/28/2010	56.0	56.0		0.0	670.32	670.32
CAL CARB 325	SX	11.97	2/28/2010	56.0			56.0		0.00
CELLOPHANE	SX	54.09	2/28/2010	50.0			50.0		0.00
DETERGENT	EA	49.40	2/28/2010	32.0			32.0		0.00
ZETAG 7587	SX	395.59	2/28/2010	10.0			10.0		0.00
ZETAG 7692	SX	828.85	2/28/2010	10.0			10.0		0.00
BARITE	SX	27.08	2/28/2010	588.0			588.0		0.00
BICARB	SX	33.71	2/28/2010	35.0			35.0		0.00
CALCIUM NITRATE	SX	53.24	2/28/2010	80.0			80.0		0.00
ALKAPAM A1103D	SX	246.36	2/28/2010	40.0			40.0		0.00

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/27/2010, Report # 15.0, DFS: 12.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
392.00	409.00	17.00	9.00	1.9	1,157.25	15,698.07

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	400.00	1180.0	54	17.0	9.600	3.500	5.000	7.2	8.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	2/27/2010		1.0		47.0	47.91	431.19
BARAZAN	SX	184.89	2/27/2010		6.0		45.0	1,109.34	6,471.15

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/26/2010, Report # 14.0, DFS: 11.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
357.00	392.00	35.00	18.50	1.9	2,692.57	14,540.82

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	386.00	1180.0	52			3.500			8.5	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	2/26/2010		1.0		23.0	231.78	1,158.90
CAUSTIC	SX	47.91	2/26/2010		1.0		48.0	47.91	383.28
BARAFOS	SX	97.10	2/26/2010	15.0	2.0		13.0	194.20	194.20
BARAZAN	SX	184.89	2/26/2010		4.0		59.0	739.56	3,882.69
BARAZAN	SX	184.89	2/26/2010		8.0		51.0	1,479.12	5,361.81

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/25/2010, Report # 13.0, DFS: 10.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
316.00	357.00	40.00	16.75	2.4	1,904.59	11,848.25

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	341.00	1150.0	47	15.0	6.200	2.300	3.000	6.6	8.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARAZAN	SX	184.89	2/25/2010		2.0		67.0	369.78	2,403.57
PAC R	SX	157.31	2/25/2010		4.0		18.0	629.24	2,202.34
CAUSTIC	SX	47.91	2/25/2010		1.0		49.0	47.91	335.37
BARAZAN	SX	184.89	2/25/2010		4.0		63.0	739.56	3,143.13
GEL	SX	11.81	2/25/2010		10.0		-21.0	118.10	4,287.03

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/24/2010, Report # 12.0, DFS: 9.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
275.00	316.00	41.00	16.50	2.5	877.64	9,943.66

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	318.00	1160.0	47	13.0	5.700	2.000	3.000	6.6	8.5	9.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARAZAN	SX	184.89	2/24/2010		1.0		71.0	184.89	1,664.01
BARAZAN	SX	184.89	2/24/2010		2.0		69.0	369.78	2,033.79
SAWDUST	SX	6.93	2/24/2010	150.0	4.0		435.0	27.72	623.70
GEL	SX	11.81	2/24/2010		25.0		-11.0	295.25	4,168.93

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/23/2010, Report # 11.0, DFS: 8.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
258.00	275.00	17.00	4.75	3.6	232.80	9,066.02

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	266.00	1150.0	46	13.0	3.800	2.500	3.000	6.4	8.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	47.91	2/23/2010		1.0		50.0	47.91	287.46
BARAZAN	SX	184.89	2/23/2010		1.0		72.0	184.89	1,479.12

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/22/2010, Report # 10.0, DFS: 7.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
258.00	258.00	0.00			267.56	8,833.22

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	258.00	1200.0	51		5.300					

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARAZAN	SX	184.89	2/22/2010		1.0		73.0	184.89	1,294.23
GEL	SX	11.81	2/22/2010		7.0		14.0	82.67	3,873.68

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/21/2010, Report # 9.0, DFS: 6.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
246.00	258.00	12.00	8.75	1.4	1,551.73	8,565.66

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	258.00	1200.0	51					6.8	8.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	2/21/2010		1.0		23.0	157.31	1,415.79
BARAZAN	SX	184.89	2/21/2010		2.0		75.0	369.78	924.45
GEL	SX	11.81	2/21/2010		15.0		21.0	177.15	3,791.01
CAUSTIC	SX	47.91	2/21/2010		1.0		51.0	47.91	239.55
BARAZAN	SX	184.89	2/21/2010		1.0		74.0	184.89	1,109.34
PAC R	SX	157.31	2/21/2010		1.0		22.0	157.31	1,573.10
SAWDUST	SX	6.93	2/21/2010		66.0		289.0	457.38	595.98

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/20/2010, Report # 8.0, DFS: 5.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
203.00	246.00	43.00	22.75	1.9	889.27	7,013.93

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	257.00	1200.0								

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARAZAN	SX	184.89	2/20/2010		2.0		77.0	369.78	554.67
PAC R	SX	157.31	2/20/2010		2.0		24.0	314.62	1,258.48
SAWDUST	SX	6.93	2/20/2010		4.0		355.0	27.72	138.60
GEL	SX	11.81	2/20/2010		15.0		36.0	177.15	3,613.86

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/19/2010, Report # 7.0, DFS: 4.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
161.00	202.00	25.00	17.50	1.4	839.06	6,124.66

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
08:00	Gel-Chem	180.00	1110.0	52	19.0	7.200	2.500	3.500	7.6	8.5	7.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	2/19/2010		1.0		27.0	157.31	786.55
SAWDUST	SX	6.93	2/19/2010		4.0		363.0	27.72	83.16
GEL	SX	11.81	2/19/2010		10.0		61.0	118.10	3,318.61
CAUSTIC	SX	47.91	2/19/2010		1.0		52.0	47.91	191.64
BARAZAN	SX	184.89	2/19/2010	80.0	1.0		79.0	184.89	184.89
PAC R	SX	157.31	2/19/2010		1.0		26.0	157.31	943.86
SAWDUST	SX	6.93	2/19/2010		4.0		359.0	27.72	110.88
GEL	SX	11.81	2/19/2010		10.0		51.0	118.10	3,436.71

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/18/2010, Report # 6.0, DFS: 3.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
120.00	161.00	41.00	21.50	1.9	1,483.99	5,285.60

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	180.00	1070.0	55	17.0	7.700	2.000	5.000	8.2	8.5	4.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
SAWDUST	SX	6.93	2/18/2010		4.0		367.0	27.72	55.44
GEL	SX	11.81	2/18/2010		50.0		101.0	590.50	2,846.21
CAUSTIC	SX	47.91	2/18/2010		1.0		53.0	47.91	143.73
EZ MUD DP	SX	231.78	2/18/2010		2.0		24.0	463.56	927.12
GEL	SX	11.81	2/18/2010		30.0		71.0	354.30	3,200.51

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/17/2010, Report # 5.0, DFS: 2.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
88.00	120.00	32.00	19.75	1.6	2,345.97	3,801.61

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	2/17/2010		1.0		30.0	157.31	314.62
GEL	SX	11.81	2/17/2010		38.0		248.0	448.78	1,110.14
EZ MUD DP	SX	231.78	2/17/2010		1.0		26.0	231.78	463.56
CAUSTIC	SX	47.91	2/17/2010		1.0		54.0	47.91	95.82
PAC R	SX	157.31	2/17/2010		2.0		28.0	314.62	629.24
GEL	SX	11.81	2/17/2010		97.0		151.0	1,145.57	2,255.71

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/16/2010, Report # 4.0, DFS: 1.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
24.00	88.00	49.00	17.50	2.8	514.59	1,455.64

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
PAC R	SX	157.31	2/16/2010	32.0	1.0		31.0	157.31	157.31
SAWDUST	SX	6.93	2/16/2010	375.0	4.0		371.0	27.72	27.72
BARATHIN	SX	82.39	2/16/2010	25.0	4.0		21.0	329.56	329.56

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/15/2010, Report # 3.0, DFS: 0.06**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date
20.00	24.00	4.00	1.50	2.7	941.05	941.05

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
EZ MUD DP	SX	231.78	2/15/2010	28.0	1.0		27.0	231.78	231.78
CAUSTIC	SX	47.91	2/15/2010	56.0	1.0		55.0	47.91	47.91
GEL	SX	11.81	2/15/2010	342.0	56.0		286.0	661.36	661.36

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/14/2010, Report # 2.0, DFS: -0.94**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost

Daily Mud

Well Name: NALCOR ET AL. SEAMUS # 1. **Report Date: 2/13/2010, Report # 1.0, DFS: -1.94**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date

Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (cp)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost

Mud Additive Summary

Well Name: NALCOR ET AL. SEAMUS # 1. **Job Type: Drilling**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

AFE Number	Start Date	End Date	Spud Date	Rig Release Date	Total Mud Additive Cost
6220 1001	2/13/2010		2/15/2010	5/22/2010	339,444.99

Rigs

Contractor	Rig No.	Rig Type	Start Date	RR Date
STONEHAM DRILLING INC.	11		2/13/2010	

Mud Additives

Description	Cost (/unit)	Units	Rec	Consumed	Returned	On Loc	Total Cost
ALKAPAM A1103D	246.36	SX	40.0	23.0		17.0	5,666.28
BARA DEFOAM HP	354.39	EA	23.0	15.0		8.0	5,315.85
BARAFOS	97.10	SX	15.0	15.0		0.0	1,456.50
BARASEAL MEDIUM	38.07	SX	150.0	5.0		145.0	190.35
BARATHIN	82.39	SX	25.0	21.0		4.0	1,730.19
BARATROL PLUS	136.16	SX	200.0	147.0		53.0	20,015.52
BARAZAN	184.89	SX	240.0	136.0		104.0	25,145.04
BARITE	27.08	SX	5,922.0	3,866.0		2,056.0	104,691.28
BICARB	33.71	SX	82.0	82.0		0.0	2,764.22
CAL CARB '0'	11.97	SX	56.0	56.0		0.0	670.32
CAL CARB 325	11.97	SX	56.0	14.0		42.0	167.58
CALCIUM NITRATE	53.24	SX	200.0	165.0		35.0	8,784.60
CARBONOX	18.67	SX	143.0	115.0		28.0	2,147.05
CAUSTIC	47.91	SX	274.0	111.0		163.0	5,318.01
CELLOPHANE	54.09	SX	50.0	5.0		45.0	270.45
CITRIC ACID	158.68	SX	45.0	45.0		0.0	7,140.60
CLAY SYNC	386.36	SX	60.0	31.0		29.0	11,977.16
CLAYSYNC II	396.36	SX	63.0			63.0	
D-AIR 3000	827.94	EA	4.0	2.0		2.0	1,655.88
DETERGENT	49.40	EA	32.0			32.0	
ENVIRO CHARGE 20L PAIL	20.00	EA	49.0	49.0		0.0	980.00
EZ MUD DP	231.78	PAILS	32.0	32.0		0.0	7,416.96
EZ MUD DP	231.78	SX	41.0	40.0		1.0	9,271.20
GEL	11.81	SX	1,872.0	1,445.0		427.0	17,065.45
HYDRO PLUG	271.10	SX	160.0			160.0	
KONTROL	131.16	SX	53.0			53.0	
LIME	11.36	SX	185.0	48.0		137.0	545.28
LUBRA GLIDE	393.15	SX	48.0	48.0		0.0	18,871.20
MAGMA FIBRE FINE	147.77	SX	160.0	5.0		155.0	738.85
MUD BALANCE	25.00	EA	69.0	69.0		0.0	1,725.00
PAC L	157.31	SX	60.0	60.0		0.0	9,438.60
PAC R	157.31	SX	100.0	88.0		12.0	13,843.28
PALLETS	25.00	EA	237.0	237.0		0.0	5,925.00
PEBBLED LIME10	30.00	SX	10.0	10.0		0.0	300.00
SAWDUST	6.93	SX	675.0	300.0		375.0	2,079.00
SHRINKWRAP	25.00	EA	257.0	257.0		0.0	6,425.00
SODA ASH	25.48	SX	50.0	36.0		14.0	917.28
STEEL SEAL 100	236.21	SX	50.0	50.0		0.0	11,810.50
STEEL SEAL 400	236.21	SX	100.0	90.0		10.0	21,258.90
XL-DEFOAMER	354.39	PAILS	32.0			32.0	
ZETAG 7587	395.59	SX	10.0	4.0		6.0	1,582.36
ZETAG 7692	828.85	SX	10.0	5.0		5.0	4,144.25

Appendix F

Daily Operations Reports

Daily Drilling

Report for: 5/22/2010
Report #: 99.0, DFS: 96.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	4	GOOD	
Operations at Report Time		**Operations Next Report Period**	
RIG WATCH		RIG RELEASED	

Operations Summary

FINAL DAILY REPORT.

RIG RELEASED @ 1200 hrs, MAY 22,2010.
2 STONEHAM PERSONELL WILL REMAIN ON SITE AS RIG WATCH.
RIG MANAGER WILL REMAIN ON SITE UNTIL WED, MAY 26.
BOP'S REMAINING ON WELL WITH BLIND RAMS CLOSED.

STONEHAM RIG 11 PH # 709 765 0635

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	08:00	8.00	8.00	5	COND MUD & CIRC	DE-WATER MUD&CLEAN OUT MUD SYSTEM
08:00	20:00	-12.00	-4.00	IN...		

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
56,375.00	9,256,117.51
Daily Mud Cost	**Mud Additive Cost To Date**
	339,444.99
Depth Start (mKB)	**Depth End (mKB)**
3,160.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 5/21/2010
Report #: 98.0, DFS: 95.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	10	GOOD	

Operations at Report Time	Operations Next Report Period
STRIPPING MUD.	

Operations Summary

CONTINUED LAYING OUT DRILL PIPE. RIGGED OUT DRILL FLOOR.
STARTED CLEANJNG MUD TANKS AND STRIPPING MUD.
LOWERED TOP SECTION ON DERRICK

Morning Tour Notes:
VIS INSP BRAKE LINKAGE PINS
F/T CROWN SAVER@2400HR
Day Tour Notes:
CHECKED BRAKES AND LINKAGES
INSPECTION OF LIFTING EQUIPMENT PRIOR TO LOWERING TOP SECTION

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER F/T UPPER PIPE RAM AND LOWER PIPE RAM 4sec OPEN CLOSE
00:15	05:30	5.25	5.50	6	TRIPS	CONT LAY DOWN DRILL PIPE W/FLOW CHECKS@2054m1091m200m0m CALC=8.96 MEAS=9.78 DIFF=+82 F/T BLIND RAM O.O.H 4sec OPEN CLOSE
05:30	06:45	1.25	6.75	22	TEAR DOWN	LAY OUT KELLY SPINNER,RIG OUT RIG FLOOR
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	08:00	1.00	8.00	5	COND MUD & CIRC	DE-WATER MUD CLEAN OUT MUD SYSTEM
08:00	09:30	1.50	9.50	22	TEAR DOWN	TEAR DOWN , LAY DOWN KELLY BAR AND SWIVEL , CLEAN UP THINGS AROUND CATWALK
09:30	09:45	0.25	9.75	21	SAFETY MEETING	SAFETY MEETING ON SLIP AND CUT DRILL LINE
09:45	10:45	1.00	10.75	9	CUT OFF DRILLING LINE	SLIP & CUT DRILLING LINE
10:45	12:00	1.25	12.00	5	COND MUD & CIRC	DE-WATER MUD & CLEAN OUT MUD SYSTEM
12:00	15:30	3.50	15.50	5	COND MUD & CIRC	DE-WATER MUD & CLEAN OUT MUD SYSTEM
15:30	15:45	0.25	15.75	21	SAFETY MEETING	SAFETY MEETING ON LOWERING TOP SECTION
15:45	16:15	0.50	16.25	22	TEAR DOWN	TEAR DOWN , LOWER TOP SECTION AND WRAP UP CABLES
16:15	18:45	2.50	18.75	5	COND MUD & CIRC	DE-WATER MUD & CLEAN OUT MUD SYSTEM
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	00:00	5.00	24.00	5	COND MUD & CIRC	DE-WATER MUD&CLEAN OUT MUD SYSTEM

2,200.00mKB, 5/21/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Water Base	00:00	2,200.00	981.0			
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
				11.5		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
59,635.72	9,199,742.51
Daily Mud Cost	**Mud Additive Cost To Date**
20,991.72	339,444.99
Depth Start (mKB)	**Depth End (mKB)**
3,160.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	60	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CITRIC ACID	158.68	1.0
ZETAG 7692	828.85	2.0
ZETAG 7587	395.59	2.0
LIME	11.36	5.0
ALKAPAM A1103D	246.36	6.0
SODA ASH	25.48	14.0
CALCIUM NITRATE	53.24	27.0
PALLETS	25.00	237.0
ENVIRO CHARGE 20L PAIL	20.00	49.0
SHRINKWRAP	25.00	257.0
MUD BALANCE	25.00	69.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	LOWERING TOP SECTION
00:00	Safety Meeting	CLEANING MUD TANKS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 5/20/2010
Report #: 97.0, DFS: 94.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	10	GOOD	

Operations at Report Time	Operations Next Report Period
RIG OUT RIG FLOOR	

Operations Summary

CONTINUED WAITING ON CEMENT UNTIL 1800 hrs. RAN IN AND FELT PLUG @ 2213 m.
SET DRILL STRING WT. 60 dan ON PLUG. PULLED OUT TO 2200 m.
HELD SAFETY MEETING WITH BJ SERVICES AND PRESSURE TESTED CASING TO 21,250 kpa - 6 min, NO PRESSURE DROP.
CIRCULATED AND DISPLACED WELL TO WATER. STARTED PULLING OUT OF HOLE LAYING OUT DRILL PIPE.

Morning Tour Notes:
F/T CROWN SAVER@2100HR
BRAKE LINKAGE PINS MANIFOLD VALVE ALIGNMENT
DP COUNT @ 800 HRS - 159 IN HOLE , 8 IN DERRICK , 138 ON RACKS , 305 TOTAL
Day Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T FLARE TANK IGNITER
CHECKED MECHANICAL CROWN SAVER @ 815 HRS

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:30	1.50	1.50	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
01:30	06:45	5.25	6.75	13	WAIT ON CEMENT	WAIT ON CEMENT
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	08:00	1.00	8.00	13	WAIT ON CEMENT	WAIT ON CEMENT
08:00	08:15	0.25	8.25	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 34 SEC TO CLOSE >
08:15	12:00	3.75	12.00	13	WAIT ON CEMENT	WAIT ON CEMENT
12:00	17:45	5.75	17.75	13	WAIT ON CEMENT	WAIT ON CEMENT
17:45	18:00	0.25	18.00	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE >
18:00	18:15	0.25	18.25	6	TRIPS	R.I.H. TO ATTEMPT TO FIND TOP OF PLUG #3 , TOP OF PLUG @ 2213m , SET 60kDaN ON TOP OF PLUG
18:15	18:45	0.50	18.75	5	COND MUD & CIRC	CIRCULATE ON TOP OF PLUG PRIOR TO PRESSURE TESTING PLUG
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	19:15	0.25	19.25	21	SAFETY MEETING	SAFETY MEETING W/CREW B.J CEMENTERS ONSITE SUPERVISORS PRIOR TO PRESSURE TEST
19:15	20:00	0.75	20.00	12	RUN CASING AND CEMENT	PRESSURE TEST CEMENT PLUG@2213m 21.000npa
20:00	20:30	0.50	20.50	6	TRIPS	LAY DOWN 3RD PARTY TOOLS
20:30	23:00	2.50	23.00	5	COND MUD & CIRC	DISPLACE HOLE TO WATER BASE 75m3 ph 11.5
23:00	00:00	1.00	24.00	6	TRIPS	LAY DOWN DRILL PIPE W/FLOW CHECKS@2200m

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
146,626.45	9,140,106.79
Daily Mud Cost	**Mud Additive Cost To Date**
3,491.09	318,453.27
Depth Start (mKB)	**Depth End (mKB)**
3,160.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARAFOS	97.10	11.0
ZETAG 7692	828.85	1.0
BARAFOS	97.10	1.0
ALKAPAM A1103D	246.36	2.0
CALCIUM NITRATE	53.24	6.0
SODA ASH	25.48	16.0
SAWDUST	6.93	40.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HOUSEKEEPI...
00:00	Safety Meeting	LAYDOWN DRILL STRING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

WellView

Daily Drilling

Report for: 5/19/2010
Report #: 96.0, DFS: 93.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	8	GOOD	

Operations at Report Time	Operations Next Report Period
WAIT ON CEMENT.	

Operations Summary

SPOT 50 m CEMENT PLUG # 1 ON BOTTOM.
PULLED TO 2242 m AND SPOTED 100 m CEMENT PLUG # 2. PULLED TO 2175 m AND CIRCULATED.
WAITED ON CEMENT 10 hrs. WHILE WAITING,LAYED OUT 900 m DRILL PIPE.
RAN IN AND TAGGED CEMENT PLUG @ 2303 m. CIRCULATED HOLE CLEAN.
SPOTTED 100 m CEMENT PLUG @ 2303 m. PULLED TO 2200 m AND CIRCULATED.
PULLED TO 2180 m AND WAITED ON CEMENT.

PLUG # 1 PUMPED 2 m3, 2.65 t. 1901 kg/m3, .3% R3, .5% CD-31, CLASS G. 10 % EXCESS
ESTIMATED TOP 3101 m.

PLUG # 2 @ 2342 m PUMPED 5.3 m3, 7.O t. 1901 kg/m3, .2% R3, .5% CD-31, CLASS G. 40 % EXCESS
TAGGED TOP @ 2303 m.

PLUG # 3 @ 2303 m. PUMPED 4.3 m3, 5.68 t. 1901 kg/m3, .2% R3, .5% CD-31, CLASS G.
TAGGED TOP @ 2213 m. SET 60 dan STRING WEIGHT ON PLUG.

Day Tour Notes:
CHECKED CROWN SAVER
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T FLARE TANK IGNITER

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	12	RUN CASING AND CEMENT	RUN 50m PLUG ON BOTTOM
01:15	03:45	2.50	3.75	6	TRIPS	TRIP OUT OF HOLE WITH FLOW CHECKS @ 2950m,2338m
03:45	04:30	0.75	4.50	5	COND MUD & CIRC	PICK UP KELLY CIRCULATE BOTTOMS UP
04:30	04:45	0.25	4.75	7	RIG SERVICE	RIG SERVICE FT ANNULAR 33secs OPEN/CLOSE
04:45	05:00	0.25	5.00	21	SAFETY MEETING	SAFETY MEETING WITH CEMENTERS,CREW,RIG MANAGER,COMPANY MAN
05:00	05:30	0.50	5.50	12	RUN CASING AND CEMENT	RUN 100m PLUG @ CASING SHOE
05:30	06:15	0.75	6.25	6	TRIPS	TRIP OUT OF HOLE PULL 8 STANDS
06:15	06:45	0.50	6.75	13	WAIT ON CEMENT	WAIT ON CEMENT/CIRCULATE TO CLEAN PIPE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	12:00	5.00	12.00	13	WAIT ON CEMENT	WAIT ON CEMENT , LAYDOWN 64 SINGLES OF D.P. AND R.I.H. 28 STDS OF D.P. FROM DERRICK
12:00	12:15	0.25	12.25	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL HELD W/ CREW ; DISCUSSED CREW DUTIES AND KICK WARNING SIGNS WHEN TRIPPING
12:15	16:30	4.25	16.50	13	WAIT ON CEMENT	CONT TO WAIT ON CEMENT
16:30	17:30	1.00	17.50	6	TRIPS	TRIP IN HOLE TO FIND CEMENT PLUG
17:30	18:15	0.75	18.25	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
18:15	18:30	0.25	18.50	6	TRIPS	TRIP IN HOLE TO FIND CEMENT PLUG
18:30	18:45	0.25	18.75	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP PRIOR TO CEMENTING PLUG
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	21:15	2.25	21.25	5	COND MUD & CIRC	CONT TO CIRCULATE BOTTOMS UP
21:15	22:15	1.00	22.25	12	RUN CASING AND CEMENT	PUMP CEMENT PLUG#2303M
22:15	22:30	0.25	22.50	6	TRIPS	TRIP OUT OF HOLE TO 2200m

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
104,460.61	8,993,480.34
Daily Mud Cost	**Mud Additive Cost To Date**
1,607.61	314,962.18
Depth Start (mKB)	**Depth End (mKB)**
3,160.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ZETAG 7692	828.85	1.0
ALKAPAM A1103D	246.36	1.0
CALCIUM NITRATE	53.24	8.0
CALCIUM NITRATE	53.24	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	PIPE SPINNER USE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
22:30	00:00	1.50	24.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE

3,160.00mKB, 5/19/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,160.00	1210.0	71		

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
60						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				140.00

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 5/18/2010
Report #: 95.0, DFS: 92.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	8	GOOD	

Operations at Report Time	Operations Next Report Period
CIRCULATE @ 2120 m.	WAIT ON CEMENT,LAY OUT DRILL PIPE

Operations Summary

COMPLETED LOGGING VSP LOG # 4. RIGGED OUT LOGGING EQUIPMENT.
LAYED OUT HWDP AND DRILL COLLARS.
RAN IN HOLE WITH OPEN END DRILL PIPE TO 3160 m. FOR CEMENT PLUGS.
CIRCULATED AND CONDITION MUD.
HELD SAFETY MEETING AND RIGGED IN CEMENTERS.

Morning Tour Notes:
REVIEWED JTAS 8-4 REPAIRING FLOOR MOTOR,8-5 REPAIRING PUMP MOTOR,
Day Tour Notes:
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE/W KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE F/T CROWN SAVER@0800HR
JTA REVIEW 2-C RIGTONG OPERATIONS 6-A SETTING AND PULLING SLIPS
STARTED BOILER@1400HR

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	7	RIG SERVICE	RIG SERVICE GREASE DRAWORKS,DRIVESHAFTS,CHECK OILS
00:15	06:30	6.25	6.50	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS V.S.P.
06:30	06:45	0.25	6.75	11	WIRELINE LOGS	RIG OUT LOGGERS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	08:30	1.50	8.50	11	WIRELINE LOGS	RIG OUT LOGGERS
08:30	09:00	0.50	9.00	6	TRIPS	MAKE UP BHA
09:00	09:15	0.25	9.25	21	SAFETY MEETING	JSA (JOB SAFETY ANALYSIS) REVIEW LAYING DOWN BHA H.W.D.P AND 6.5 DC
09:15	10:15	1.00	10.25	6	TRIPS	LAY DOWN BHA 2 H.D.P 3 6.5 D.C
10:15	14:30	4.25	14.50	23	WAITING ON	W/O ORDERS
14:30	14:45	0.25	14.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER&RESET F/T UPPER PIPE RAM AND LOWER PIPE RAM 5sec OPEN CLOSE
14:45	15:15	0.50	15.25	6	TRIPS	LAY DOWN BHA H.W.D.P D.C
15:15	17:00	1.75	17.00	6	TRIPS	TRIP IN HOLE OPEN W/FLOW CHECKS@1480m
17:00	17:15	0.25	17.25	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
17:15	20:00	2.75	20.00	6	TRIPS	CONT TRIP IN HOLE
20:00	20:30	0.50	20.50	6	TRIPS	WASH 2 SINGLES TO BOTTOM
20:30	21:45	1.25	21.75	5	COND MUD & CIRC	CIRCULATE AND CLEAN HOLE
21:45	22:00	0.25	22.00	21	SAFETY MEETING	SAFETY MEETING WITH CEMENTERS,CREW,RIG MANAGER,ON SITE SUPERVISOR
22:00	22:15	0.25	22.25	12	RUN CASING AND CEMENT	RIG UP CEMENTERS

3,160.00mKB, 5/18/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,160.00	1210.0	71		
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
				9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		600.000	50.000			

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				140.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
367,250.08	8,889,019.73
Daily Mud Cost	**Mud Additive Cost To Date**
952.08	313,354.57
Depth Start (mKB)	**Depth End (mKB)**
3,160.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CITRIC ACID	158.68	6.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	LAYING OUT H.W.D.P
00:00	Safety Meeting	RUNNING CEMENT PLUGS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 5/17/2010
Report #: 94.0, DFS: 91.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
FOG	3	GOOD	

Operations at Report Time	Operations Next Report Period
LOGGING	

Operations Summary

CONTINUED RUNNING IN HOLE.SLIPPED AND CUT DRILL LINE.WASHED FROM 3110 m TO TD. CIRCULATED AND INCREASED DENSITY TO 1200 kg/m3
PULLED OUT OF HOLE AND RIGGED IN SCHLUMBERGER.
RAN LOG # 4- VSP LOG.

Morning Tour Notes:
REVIEWED JTAS 6-A SETTING AND PULLING SLIPS,6-6 FLOW CHECKS,6-4 WORKING ON MONKEY BOARD,6-H PIPE SPINNER USE,6-F RIH HOLE WITH DRILL STRING
FT BLIND RAMS OUT OFF HOLE @ 2230 HRS
F/T CROWN SAVERS @ 545 HRS
TRANSFER 5321 LITERS OF FUEL FROM BOILER TO RIG TANK
Day Tour Notes:
VIS INSP BRAKE LINKAGE PINS STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT FLARE LINE
JTA REVIEW 6-A TRIPPING IN HOLE 2-B CAKTWALK OPERATIONS 2-C RIGTONG OPERATION

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:30	2.50	2.50	6	TRIPS	TRIP IN HOLE FROM 0m TO 1026m
02:30	02:45	0.25	2.75	25		FLOW CHECK/FILL PIPE 1026m
02:45	04:30	1.75	4.50	6	TRIPS	TRIP IN HOLE FR 1026m TO 2023m
04:30	05:00	0.50	5.00	25		FILL PIPE FLOW CHECK @ 2023m
05:00	05:45	0.75	5.75	9	CUT OFF DRILLING LINE	SLIP/CUT DRILLING LINE FT CROWN SAVERS
05:45	07:45	2.00	7.75	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:45	08:30	0.75	8.50	6	TRIPS	TRIP IN HOLE FR 2023m TO 2686m
08:30	09:00	0.50	9.00	3	REAMING	WASH TO BOTTOM FR-3091m TO 3160m
09:00	11:00	2.00	11.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
11:00	12:00	1.00	12.00	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@3145m3007m
12:00	16:00	4.00	16.00	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@1488m 100m 0m CALC=14.0 MEAS=15.17 DIFF=+1.17 F/T BLIND RAMS O.O.H 5sec OPEN CLOSE
16:00	16:15	0.25	16.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER&RESET
16:15	16:30	0.25	16.50	21	SAFETY MEETING	SAFETY MEETING W/CREW SCHLUMBERGER LOGERS ONSITE SUPERVISORS PRIOR TO RIG IN
16:30	18:45	2.25	18.75	11	WIRELINE LOGS	RIG TO LOG OPEN HOLE V.S.P
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	00:00	5.00	24.00	11	WIRELINE LOGS	WIRELINE LOGS V.S.P

3,160.00mKB, 5/17/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,160.00	1200.0	64	19.0	12.000
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
7.000	11.500	8.0	1.0	9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		700.000	40.000			

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				132.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
37,854.21	8,521,769.65
Daily Mud Cost	**Mud Additive Cost To Date**
4,107.99	312,402.49
Depth Start (mKB)	**Depth End (mKB)**
3,160.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	85	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ALKAPAM A1103D	246.36	2.0
CALCIUM NITRATE	53.24	9.0
PAC R	157.31	1.0
BARITE	27.08	110.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	WORKING ON FLOOR MOTOR JTA 8-4

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

WellView

Daily Drilling

Report for: 5/16/2010
Report #: 93.0, DFS: 90.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAIN	3	GOOD	

Operations at Report Time	Operations Next Report Period
RUNNING IN HOLE.	PULL OUT AND LOG VSP.

Operations Summary

CONTINUED LOGGING WITH SCHLUMBERGER.
STARTED RUNNING IN HOLE FOR CLEANOUT TRIP.

Morning Tour Notes:
REVIEWED JTAS 11-2 OPEN HOLE LOGGING,7-3 WORK ON MUD PUMPS,8-4 WORK ON FLOOR MOTOR
PIPE COUNT 220 IN DERRICK 85 ON RACKS 305 TOTAL
Day Tour Notes:
CHANGED OIL IN SWIVEL AND ROTARY TORQUE SENSOR CHECKED ALL BOLTS ON DRIVE LINE
CHANGED OIL IN ROTARY TABLE

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:00	4.00	4.00	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS CONT TO RUN LOG#2
04:00	04:15	0.25	4.25	7	RIG SERVICE	RIG SERVICE GREASED DRIVE SHAFT,DRAWORKS.CHECKED ALL OILS
04:15	06:45	2.50	6.75	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS CONT TO RUN LOG#2
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	12:00	5.00	12.00	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS CONT TO RUN LOG#2
12:00	18:45	6.75	18.75	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS RUN#3 M.D.T
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	22:30	3.50	22.50	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS
22:30	22:45	0.25	22.75	21	SAFETY MEETING	SAFETY MEETING WITH LOGGERS ON RIGGING OUT
22:45	23:45	1.00	23.75	11	WIRELINE LOGS	RIG OUT LOGGERS FT BLIND OUT OF HOLE 5secs OPEN/CLOSE
23:45	00:00	0.25	24.00	6	TRIPS	TRIP IN HOLE

3,160.00mKB, 5/16/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,160.00	1170.0	60	18.0	10.500
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
6.000	11.000	7.6	1.0	9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		650.000	40.000			

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				139.00

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
42,261.00	8,483,915.44
Daily Mud Cost	**Mud Additive Cost To Date**
	308,294.50
Depth Start (mKB)	**Depth End (mKB)**
3,160.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIG FLOOR TUGGER
00:00	Safety Meeting	TRIPPING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 5/15/2010
Report #: 92.0, DFS: 89.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	5	GOOD	
Operations at Report Time		**Operations Next Report Period**	
LOGGING		LOGGING	

Operations Summary

CIRCULATE HOLE CLEAN AND PULL OUT TO 2600 m. DRAWWORKS MOTOR FAILURE, WAIT ON MECHANIC AND REPAIRED. PULLED OUT OF HOLE, HELD SAFETY MEETING AND RIGGED IN SCHLUMBERGER.
LOGGED WELL.

Morning Tour Notes:
REVIEWED JTAS 6-A SETTING & PULLING SLIPS,6-E POOH WITH DRILL STRING,6-6 FLOW CHECKS,6-4 WORKING ON MONKEY BOARD
CHECKED MANIFOLD ALIGNMENT,STABBING VALVE,INSIDE BOP,FT FLARE IGNITER
CHECKED BRAKE LINKAGE
PIPE COUNT 220 IN HOLE 85 ON RACKS 305 TOTAL
FT MECHANICAL/ELECTRONIC CROWN SAVERS @ 2130HRS
Day Tour Notes:
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY
MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE
F/T CROWN SAVER@1600HR
JTA REVIEW 2-B CATWALK OPERATIONS 2-C RIGTONG OPERATIONS 6-H PIPE SPINNER USE

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:00	2.00	2.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN
02:00	02:15	0.25	2.25	7	RIG SERVICE	RIG SERVICE
02:15	04:00	1.75	4.00	6	TRIPS	TRIP OUT OF HOLE FLOW CHECKS@ 3141m,3003m
04:00	08:00	4.00	8.00	8	REPAIR RIG	DOWNTIME - ENGINES / TROUBLE SHOOT ELECTRICAL PROBLEM ON DRAWWORKS ENGINE / WAIT ON MECHANIC
08:00	12:00	4.00	12.00	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@3144m 3002m
12:00	14:30	2.50	14.50	6	TRIPS	CONT TRIP OUT OF HOLE W/FLOW CHECKS@2256m 930m 104m 0m CALC=14.35 MEAS=15.31 DIFF=+.96 F/T BLIND RAM O.O.H 5sec OPEN CLOSE STARP=3142.91M DIFF=-0.74M
14:30	14:45	0.25	14.75	21	SAFETY MEETING	PRE-JOB SAFETY W/CREW SCHLUMBERGER DIRECTIONAL HAND PRIOR TO LAYIONG OUT B.H.A
14:45	15:30	0.75	15.50	20	DIR. WORK	DIRECTIONAL WORK BREAK DOWN TELEDRIFT BIT MUD MOTOR
15:30	15:45	0.25	15.75	21	SAFETY MEETING	SAFETY MEETING W/CREW SCHLUMBERGER LOGGERS ONSITE SUPERVISORS PRIOR TO RIG IN
15:45	16:30	0.75	16.50	11	WIRELINE LOGS	RIG TO AND LOG
16:30	18:45	2.25	18.75	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS / MONITOR WELL WHILE LOGGING
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	20:30	1.50	20.50	11	WIRELINE LOGS	CONT LOGGING - OPEN HOLE LOGS LOG ONLY WENT 3129m PEX A1T
20:30	21:30	1.00	21.50	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS RIG OUT LOG#1 RIG UP LOG#2 DSI-FM1
21:30	00:00	2.50	24.00	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS START RUN LOG#2 @2130

3,160.00mKB, 5/15/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,160.00	1170.0	56		11.000
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
				9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				149.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
39,372.82	8,441,654.44
Daily Mud Cost	**Mud Additive Cost To Date**
4,400.61	308,294.50
Depth Start (mKB)	**Depth End (mKB)**
3,160.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
STEEL SEAL 400	236.21	9.0
BARITE	27.08	42.0
BARITE	27.08	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DRIVING TO AND FROM LOCATION
00:00	Safety Meeting	LOGGING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 5/14/2010
Report #: 91.0, DFS: 88.06
Depth Progress: 52.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	5	GOOD	OVERPULL

Operations at Report Time	Operations Next Report Period
WAIT ON MECHANIC	REPAIR DRAWWORKS MOTOR, PULL OUT TO LOG

Operations Summary

DRILLED FROM 3108 m. TO 3160 m TD.
CIRCULATE BOTTOMS UP AND WIPER TRIP TO 2735 M.
O7OO hrs - WAIT ON MECHANIC TO REPAIR DRAWWORKS MOTOR.

Morning Tour Notes:
ADJUSTED BRAKE HANDLE,FT ELECTRONIC/MECHANICAL CROWN SAVERS
CHECKED STABBING VALVE,INSIDE BOP,MANIFOLD ALIGNMENT,FLARE IGNITER
CHECKED BRAKE LINKAGE,FT UPPER/LOWER PIPE RAMS 5secs OPEN/CLOSE
PIPE COUNT 218 IN HOLE 87 ON RACKS 305 TOTAL
Day Tour Notes:
VIS INSP BRAKE LINKAGE PINS STABBING W/KEY INSIDE BOP DEADMAN ANCHOR
MANIFOLD VALVE ALIGNMENT DEGASSER LINE FLARE LINE PVT PROBS IN MUD TANK
JTA REVIEW 2-D MOUSEHOLE CONNECTIONS 7-1 RIG SERVICE
PIPE COUNT@1200HR=219 ON LOCATION=86 TOTAL=305 CORRECT

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:15	5.25	5.25	2	DRILL ACTUAL	DRILL 216mm HOLE FR 3108 TO 3118m
05:15	05:30	0.25	5.50	10	DEV. SURVEY	TELEDRIFT SURVEY
05:30	05:45	0.25	5.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS,CHECKED ALL OILS FT UPPER/LOWER PIPE RAMS 5secs OPEN/CLOSE
05:45	06:45	1.00	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR 3118m TO 3122m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	11:45	4.75	11.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR 3122m TO 3134m
11:45	12:00	0.25	12.00	10	DEV. SURVEY	TELEDRIFT SURVEY
12:00	15:15	3.25	15.25	2	DRILL ACTUAL	DRILL 216mm HOLE FR-3134m TO 3145m
15:15	15:30	0.25	15.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS DRIVE LINE BOLTS F/T ANNULAR 33sec OPEN CLOSE F/T CROWN SAVER&RESET
15:30	18:45	3.25	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR-3145m TO 3156m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	20:15	1.25	20.25	2	DRILL ACTUAL	DRILL 216mm HOLE FR-3156m TO 3160m
20:15	20:45	0.50	20.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTTOMS UP
20:45	21:00	0.25	21.00	10	DEV. SURVEY	DEVIATION SURVEY
21:00	21:45	0.75	21.75	6	TRIPS	FT MECHANICAL & ELECTRONIC CROWN SAVERS TRIP OUT OF HOLE 15 STAND WIPER TRIP FLOW CHECK @ 3143m,3004m,2755m
21:45	00:00	2.25	24.00	6	TRIPS	TRIP IN HOLE FR 2755 TO 3160

3,155.00mKB, 5/14/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,155.00	1165.0	57	18.0	10.000
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	10.000	8.0	1.0	9.0		7.3
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		600.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				155.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
40,246.84	8,402,281.62
Daily Mud Cost	**Mud Additive Cost To Date**
6,982.45	303,893.89
Depth Start (mKB)	**Depth End (mKB)**
3,108.00	3,160.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	2.0
BARAZAN	184.89	2.0
PAC R	157.31	3.0
STEEL SEAL 400	236.21	6.0
PAC R	157.31	2.0
EZ MUD DP	231.78	6.0
STEEL SEAL 400	236.21	6.0
BARITE	27.08	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	POWER TOOLS
00:00	Safety Meeting	TRIP OUT OF HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #29, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
27	216.0mm, R40ADH, KB1434	0.25	4-7-LT-A-E-0.00-BT-TD	290	2.5

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1	3,132.88	167.0

String Components

REED R40ADH, BIT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, HWDP(5.0 IN)-+, Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	3,108.00	3,134.00	55.00	25.00	2.4		16	60	11,000			16,5...
Original Hole	3,134.00	3,160.00	81.00	32.75	3.4		16	60	10,600			17,3...

WellView

Daily Drilling

Report for: 5/13/2010
Report #: 90.0, DFS: 87.06
Depth Progress: 29.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
BLOWING SNOW	7	GOOD	GOOD
Operations at Report Time		**Operations Next Report Period**	
DRILLING @ 3122 M.		DRILL AHEAD	

Operations Summary

FUNCTIONED TESTED ACCUMULATOR. START PRESSURE 20700 kpa. 4 FUNCTION TEST - REMAINING PRESSURE 9700 kpa. TIME TO RECHARGE 2 min 2 secs.
CONTINUED RUNNING IN HOLE. WASH IN LAST 2 SINGLES.
DRILLED FROM 3079 m. TO 3108 m.

Morning Tour Notes:
FUNCTION CROWN SAVER @ 2300 HRS
VISUALLY INSPECT CRAKES AND LINKAGE

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	6	TRIPS	TRIP IN HOLE FLOW CHECK @ 1020m
01:00	01:15	0.25	1.25	25		FILL PIPE
01:15	01:30	0.25	1.50	15	TEST B.O.P.	ACCUMULATOR FUNCTION TEST START 20700 KPA CLOSE ANNULAR 33 SEC 12000 KPA, CLOSE UPPER PIPE RAMS 6 SEC 11000 KPA, CLOSE LOWER PIPE RAMS 6 SEC 10000 KPA OPEN HCR 2 SEC 9700 KPA REMAINING PRESSURE, RECHARGE 2 MIN 2 SEC WITH BOTH PUMPS
01:30	02:30	1.00	2.50	6	TRIPS	TRIP IN HOLE FROM 1020m TO 2007m FLOW CHECK @ 2007m
02:30	02:45	0.25	2.75	25		FILL PIPE
02:45	06:30	3.75	6.50	6	TRIPS	TRIP IN HOLE FR 2007m TO 3079m
06:30	06:45	0.25	6.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T ANNULAR 33sec CLOSE OPEN
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	08:45	1.75	8.75	2	DRILL ACTUAL	DRILL 216mm HOLE PATTERN BIT FR-3079m-3083m
08:45	10:30	1.75	10.50	8	REPAIR RIG	DOWNTIME - DRAWWORKS CHANGED OUT ROTARY TABLE DRIVE CHAIN
10:30	12:00	1.50	12.00	2	DRILL ACTUAL	DRILL 216mm HOLE FR-3083m TO 3086m
12:00	14:15	2.25	14.25	2	DRILL ACTUAL	DRILL 216mm HOLE FR-3086m TO 3091m
14:15	14:30	0.25	14.50	20	DIR. WORK	DIRECTIONAL SURVEYS
14:30	14:45	0.25	14.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER RESET F/T UPPER PIPE RAM&LOWER PIPE RAM 5sec close open
14:45	18:45	4.00	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR-3091m TO 3098m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
19:00	22:00	3.00	22.00	2	DRILL ACTUAL	DRILL 216mm HOLE FR 3098m TO 3104m
22:00	22:15	0.25	22.25	7	RIG SERVICE	RIG SERVICE ADJUSTED BRAKE HANDLE,CHECKED ALL OILS,GREASED ALL MOVING COMPONENTS
22:15	22:30	0.25	22.50	20	DIR. WORK	TELEDRIFT SURVEY
22:30	00:00	1.50	24.00	2	DRILL ACTUAL	DRILL 216 mm HOLE FR 3104m TO 3108m

3,099.00mKB, 5/13/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,099.00	1150.0	53	15.0	7.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	7.000	8.2	1.0	9.2		6.5
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
60		600.000	60.000			

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				151.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
49,186.33	8,362,034.78
Daily Mud Cost	**Mud Additive Cost To Date**
9,880.97	296,911.44
Depth Start (mKB)	**Depth End (mKB)**
3,079.00	3,108.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	85	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
EZ MUD DP	231.78	2.0
STEEL SEAL 400	236.21	5.0
STEEL SEAL 100	236.21	34.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HOUSEKEEPI... RIG FLOOR
00:00	Safety Meeting	ADJUSTING BRAKE HANDLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #29, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
27	216.0mm, R40ADH, KB1434	0.25	4-7-LT-A-E-0.00-BT-TD	290	2.5

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1	3,132.88	167.0

String Components

REED R40ADH, BIT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, HWDP(5.0 IN)-+, Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	3,079.00	3,086.00	7.00	3.25	2.2		9	45	11,050			15,7...
Original Hole	3,086.00	3,108.00	29.00	14.00	2.0		16	60	11,200			16,0...

Daily Drilling

Report for: 5/12/2010
Report #: 89.0, DFS: 86.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	7	GOOD	TIGHT
Operations at Report Time		**Operations Next Report Period**	
DRILLING		DRILL AHEAD	

Operations Summary

CONTINUED PULLING OUT OF HOLE. PUMPED OUT 8 SINGLES DUE TO TIGHT HOLE.
LAYED OUT 4 HWDP, 2 DRILL COLLARS AND MUD MOTOR.
PULLED WEAR BUSHING AND RIGGED IN BJ PERSSURE UNIT. PRESSURE TESTED BOP,S, CHOKE MANIFOLD,AND RELATED WELL CONTROL EQUIPMENT.
TESTED BLIND RAMS,PIPE RAMS,ANNULAR PREVENTOR,INSIDE AND OUTSIDE HCR VALVES,INSIDE AND OUTSIDE KILL VALVES,UPPER AND LOWER KELLY COCKS,CHOKE LINE AND CHOKE MANIFOLD.
ALL TEST 1500 kpa LOW, 21000 kpa HIGH 10 min.

MADE UP NEW INSERT BIT AND MUD MOTOR AND RAN IN HOLE.

Morning Tour Notes:
SAFETY TOPIC PULLING TIGHT HOLE
CHECKED MANIFOLD ALIGNMENT,FLARE IGNITER,INSIDE BOP,STABBING VALVE
CHECK CROWN SAVER @ 0000

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	6	TRIPS	TRIP OUT OF HOLE,PUMP OUT SINGLES
01:00	03:00	2.00	3.00	8	REPAIR RIG	DOWNTIME - ENGINES/ TROUBLE SHOOT ELECTRICAL PROBLEM ON DRAWWORKS ENGINE
03:00	03:30	0.50	3.50	6	TRIPS	TRIP OUT OF HOLE,PUMP OUT SINGLES
03:30	03:45	0.25	3.75	8	REPAIR RIG	DOWNTIME - ENGINES/ TROUBLE SHOOT ELECTRICAL PROBLEM ON DRAWWORKS ENGINE
03:45	04:00	0.25	4.00	6	TRIPS	TRIP OUT OF HOLE,PULL 5 STANDS
04:00	04:45	0.75	4.75	25		FLOW CHECK@2730m,
04:45	05:00	0.25	5.00	25		PICK UP KELLY,PUMP PILL
05:00	06:45	1.75	6.75	6	TRIPS	CONT TRIP OUT OF HOLE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	11:15	4.25	11.25	6	TRIPS	CONT TRIP OUT OF HOLE W/FLOW CHECKS@2924m-1539m212m0m CALC=11.65 MEAS=15.52 DIFF=+3.89
11:15	11:30	0.25	11.50	21	SAFETY MEETING	SAFETY MEETING W/CREW DIRECTIONAL HAND REVIEW JSA LAYING DOWN DIR TOOLS
11:30	12:00	0.50	12.00	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER F/T BLIND RAMS O.O.H 4sec CLOSE OPEN
12:15	12:30	0.25	12.50	21	SAFETY MEETING	SAFETY MEETING W/CREW PRESSURE TESTER ONSITE SUPERVISORS PRIOR TO TEISTING BOP
12:30	18:45	6.25	18.75	15	TEST B.O.P.	TEST BOP BLIND RAM 1500KPA LOW HIGH 21000KPA LOWER PIPE RAM 1500KPA LOW 10min 21000KPA HIGH 10min HCR OUTSIDE KILL LINE VALVE,STABBING VALVE UPPER PIPE RAMS INSIDE KILL LINE VALVE 1500KPA LOW 10min HIGH 10min
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
19:00	21:00	2.00	21.00	15	TEST B.O.P.	TEST BOP UPPER PIPE RAM 1500 LOW 21000 HIGH
21:00	21:30	0.50	21.50	6	TRIPS	PICK UP DIRECTIONAL TOOLS
21:30	00:00	2.50	24.00	6	TRIPS	TRIP IN HOLE

3,070.00mKB, 5/12/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,070.00	1145.0	56		
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
		8.0	1.0	9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		500.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
64,775.14	8,312,848.45
Daily Mud Cost	**Mud Additive Cost To Date**
2,948.14	287,030.47
Depth Start (mKB)	**Depth End (mKB)**
3,079.00	3,079.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,175	Yes	40	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	84	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
STEEL SEAL 400	236.21	7.0
BARITE	27.08	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	PRESSURE TESTING BOP
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

WellView

Daily Drilling

Report for: 5/11/2010
Report #: 88.0, DFS: 85.06
Depth Progress: 34.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	8	GOOD	

Operations at Report Time	Operations Next Report Period
TRIPPING	TRIP CHANGE BIT AND MOTOR

Operations Summary
DRILLED FROM 3035 m TO 3080 m.
PULLED OUT OF HOLE

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3035m TO 3038m
01:15	01:30	0.25	1.50	10	DEV. SURVEY	TELEDRIFT SURVEY
01:30	01:45	0.25	1.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS,CHECKED ALL OILS,CHECKED BOLTS ON BOTH U-JOINTS ON DRIVE SHAFT, FT CROWN SAVERS, FT ANNULAR 32secs TO CLOSE
01:45	06:45	5.00	6.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3038m TO 3050m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3050m TO 3052m
08:00	08:15	0.25	8.25	10	DEV. SURVEY	TELEDRIFT SURVEY
08:15	12:00	3.75	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3052m -3062m
12:00	14:00	2.00	14.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3062m - 3066m
14:00	14:15	0.25	14.25	10	DEV. SURVEY	TELEDRIFT SURVEY
14:15	14:30	0.25	14.50	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE (GREASED CROWN)
14:30	16:30	2.00	16.50	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3062m - 3071m
16:30	18:00	1.50	18.00	25		TROUBLE SHOOT PASON DEPTH TRACKER
18:00	18:45	0.75	18.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3071m - 3073m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:45	2.75	21.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3073m - 3078m
21:45	22:00	0.25	22.00	7	RIG SERVICE	RIG SERVICE
22:00	00:00	2.00	24.00	6	TRIPS	PUMP OUT SINGLES

3,075.00mKB, 5/11/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,075.00	1145.0	56	16.0	9.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.000	8.000					
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		500.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				68.00

BHA #28, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
26	216.0mm, GX-44DX, 6059477	0.24	2-2-BT-H-E-0.00-WT-HR	305	2.0

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.9/11.1	3,063.46	172.0

String Components
HUGHES GX-44DX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	3,035.00	3,052.00	73.00	37.00	1.5		15	30	10,500			17,0...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
52,895.51	8,248,073.31
Daily Mud Cost	**Mud Additive Cost To Date**
6,650.51	284,082.33
Depth Start (mKB)	**Depth End (mKB)**
3,035.00	3,079.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
3,350	Yes	43	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	82	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
PAC R	157.31	1.0
STEEL SEAL 400	236.21	3.0
CAUSTIC	47.91	1.0
EZ MUD DP	231.78	2.0
BARAZAN	184.89	2.0
PAC R	157.31	2.0
STEEL SEAL 400	236.21	4.0
BARITE	27.08	126.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	PULLING TIGHT HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	3,062.00	3,079.00	90.00	44.50	2.3		16	30	10,250			17,5...

WellView

Daily Drilling

Report for: 5/10/2010
Report #: 87.0, DFS: 84.06
Depth Progress: 49.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	10	GOOD	

Operations at Report Time	Operations Next Report Period
DRILLING @ 3047 m.	DRILL AHEAD,TRIP FOR BIT

Operations Summary
DRILLED FROM 2986 m TO 3035 m.

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
53,879.47	8,195,177.80
Daily Mud Cost	**Mud Additive Cost To Date**
17,369.32	277,431.82
Depth Start (mKB)	**Depth End (mKB)**
2,986.00	3,035.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:00	6.00	6.00	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2986m TO 2997
06:00	06:15	0.25	6.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/F/T ANNULAR 36 SEC TO CLOSE
06:15	06:30	0.25	6.50	21	SAFETY MEETING	BOP DRILL
06:30	06:45	0.25	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR 2997mm TO 2299mm
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	12:00	5.00	12.00	2	DRILL ACTUAL	DRILL 216mm HOLE FR 2299m TO 3009m
12:00	13:00	1.00	13.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3009m - 3011m
13:00	13:15	0.25	13.25	10	DEV. SURVEY	TELEDRIFT SURVEY
13:15	13:30	0.25	13.50	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/F/T MOTOR KILLS AND HCR VALVE 3 SEC TO OPEN
13:30	18:45	5.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3011m - 3024m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	19:15	0.25	19.25	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3024m - 3025m
19:15	19:30	0.25	19.50	10	DEV. SURVEY	TELEDRIFT SURVEY
19:30	00:00	4.50	24.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 3025m TO 3035m

3,002.00mKB, 5/10/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	3,002.00	1200.0	45	15.0	6.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	5.000	9.2	1.0	9.0		5.8
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		550.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				153.00

BHA #28, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
26	216.0mm, GX-44DX, 6059477	0.24	2-2-BT-H-E-0.00-WT-HR	305	2.0

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.9/11.1	3,063.46	172.0

String Components
HUGHES GX-44DX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,986.00	3,009.00	30.00	15.00	2.0		14	45	10,500			18,5...
Original Hole	3,009.00	3,035.00	56.00	26.00	2.4		15	30	10,200			17,0...

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	82	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
STEEL SEAL 400	236.21	2.0
BARITE	27.08	501.0
BARAZAN	184.89	2.0
CAUSTIC	47.91	3.0
EZ MUD DP	231.78	3.0
PAC R	157.31	3.0
STEEL SEAL 400	236.21	6.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	PULLING TIGHT ON CONNECTIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 5/9/2010
Report #: 86.0, DFS: 83.06
Depth Progress: 7.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAIN	5	GOOD	TIGHT

Operations at Report Time	Operations Next Report Period
DRILLING @ 2997 m.	DRILL AHEAD

Operations Summary

DRILLED FROM 2977M TO 2979M.
CIRCULATED HOLE CLEAN AND PULLED OUT OF HOLE. TIGHT HOLE, PUMP OUT 30 SINGLES. MUD MOTOR BEARING SECTION DAMAGED.
MADE UP NEW MUD MOTOR , BIT AND RAN IN HOLE. WASHED TO BOTTOM.
DRILLED FROM 2979 m TO 2986 m. INCREASED DENSITY TO 1200 kg/m3

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2977m - 2979m
01:15	02:15	1.00	2.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTOMS UP PRIOR TO P.O.O.H.
02:15	02:30	0.25	2.50	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 34 SEC TO CLOSE >
02:30	06:00	3.50	6.00	6	TRIPS	TRIP OUT OF HOLE W/ FLOW CHECKS @ 2966m & 2629m ; PUMP OUT 27 SINGLES < TIGHT HOLE >
06:00	06:15	0.25	6.25	7	RIG SERVICE	CLEAN - FLOOR
06:15	06:45	0.50	6.75	6	TRIPS	CONT TO TRIP OUT OF HOLE W/ FLOW CHECK @ 2436m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	11:15	4.25	11.25	6	TRIPS	CONT TO TRIP OUT OF HOLE W/ FLOW CHECKS @/ 1473M/236M/OOH MEAS 15.36M3/CALC 14.47M3/DIFF .89M3 F/T BLIND RAMS OOH 6 SEC TO CLOSE
11:15	11:30	0.25	11.50	21	SAFETY MEETING	SAFETY MEETING WITH DIRECTIONAL HAND
11:30	12:00	0.50	12.00	20	DIR. WORK	DIRECTIONAL WORK LAYDOWN MUDMOTOR/PICK UP NEW MUDMOTOR RESCRIBE NEW MOTOR
12:00	12:15	0.25	12.25	20	DIR. WORK	CONT DIRECTIONAL WORK AND MAKE UP BIT
12:15	15:45	3.50	15.75	6	TRIPS	TRIP IN HOLE TO 1116M F/C AND FILL PIPE CONT TO RIH FR 1116M TO 2268M F/C AND FILL PIPE
15:45	16:45	1.00	16.75	9	CUT OFF DRILLING LINE	SLIP/CUT 20M OF DRILLING LINE
16:45	18:45	2.00	18.75	6	TRIPS	CONT TO TRIP IN HOLE FR 2268M TO 2970 PICKING UP 25 SINGLES/WASHING FR 2953M TO 2970M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	19:45	0.75	19.75	6	TRIPS	CONT TRIP IN HOLE WASHING FR 2970M TO BOTTOM
19:45	22:15	2.50	22.25	2	DRILL ACTUAL	DRILL 216mm HOLE FR 2979 TO 2983m
22:15	22:30	0.25	22.50	7	RIG SERVICE	RIG SERVICE GREASE ALL MOVING COMPONENTS,CHECK ALL OILS F/T UPPER LOWER PIPE RAMS 5secs OPEN/CLOSE F/T ELECTRONIC CROWN SAVER
22:30	22:45	0.25	22.75	10	DEV. SURVEY	TELEDRIFT SURVEY
22:45	00:00	1.25	24.00	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2983 TO 2986

2,979.00mKB, 5/9/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,979.00	1120.0	54	17.0	8.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.000	6.000	8.0	1.0	9.0		5.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		600.000	80.000			

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				149.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
110,670.15	8,141,298.33
Daily Mud Cost	**Mud Additive Cost To Date**
1,590.21	260,062.50
Depth Start (mKB)	**Depth End (mKB)**
2,979.00	2,986.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	84	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
STEEL SEAL 400	236.21	1.0
BARITE	27.08	50.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING IN HOLE
00:00	Safety Meeting	BOP DRILL

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #28, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
26	216.0mm, GX-44DX, 6059477	0.24	2-2-BT-H-E-0.00-WT-HR	305	2.0

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.9/11.1	3,063.46	172.0

String Components

HUGHES GX-44DX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,979.00	2,986.00	7.00	3.75	1.9		13	45	10,300			19,0...

Daily Drilling

Report for: 5/8/2010
Report #: 85.0, DFS: 82.06
Depth Progress: 53.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAIN	5	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
TRIP FOR MUD MOTOR	FINISH TRIPPING AND DRILL AHEAD

Operations Summary
RUN IN HOLE WITH NEW BIT AND DRILL FROM 2924M TO 2977M

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:45	1.75	1.75	8	REPAIR RIG	DOWNTIME - ENGINES , REPAIR EXHAUST MANIFOLD LEAK ON FLOOR MOTOR
01:45	03:30	1.75	3.50	6	TRIPS	TRIP IN HOLE W/ FLOW CHECKS @ 2270m & 2912m , WASH LAST SINGLE TO BOTTOM < NO FILL >
03:30	05:45	2.25	5.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2924m - 2928m
05:45	06:00	0.25	6.00	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 34 SEC TO CLOSE >
06:00	06:45	0.75	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2928m - 2931m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	10:30	3.50	10.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2931m - 2942m
10:30	10:45	0.25	10.75	10	DEV. SURVEY	TELEDRIFT SURVEY @ 2931m INC 0.8 DEG AZI 193
10:45	12:00	1.25	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2942m - 2946m
12:00	15:30	3.50	15.50	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2946m - 2956m
15:30	15:45	0.25	15.75	21	SAFETY MEETING	DRILLS/BOP, ETC. LAST CREW MEMBER ON FLOOR IN 22 SEC/WELL SECURE IN 56 SEC
15:45	16:00	0.25	16.00	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
16:00	18:45	2.75	18.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2956m - 2966m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	20:15	1.25	20.25	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE F/ 2966m - 2970m
20:15	20:30	0.25	20.50	10	DEV. SURVEY	TELEDRIFT SURVEY @ 2959m INC. 1.0 DEG , AZI. 209 DEG
20:30	00:00	3.50	24.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2970m - 2977m

2,960.00mKB, 5/8/2010 16:50

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	16:50	2,960.00	1120.0	50	14.0	7.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.000	4.500	7.5	1.0	9.2	0.2	6.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		600.000	80.000	0.500	1.500	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #27, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
25	216.0mm, R40APDH, KB1429	0.24	1-2-WT-S-E-0.00-WT-DTF	914	2.8

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.9/11.1/11.1/11.9/11.1/11.1/11.9	2,967.41	172.0

String Components
REED R40APDH, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,924.00	2,946.00	22.00	7.75	2.8		16	45	9,050			15,7...
Original Hole	2,946.00	2,977.00	53.00	18.75	2.8		16	45	11,900			15,5...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
58,259.25	8,030,628.18
Daily Mud Cost	**Mud Additive Cost To Date**
3,710.06	258,472.29
Depth Start (mKB)	**Depth End (mKB)**
2,924.00	2,977.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
2,960	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
STEEL SEAL 400	236.21	1.0
PAC R	157.31	1.0
CARBONOX	18.67	1.0
CAUSTIC	47.91	1.0
EZ MUD DP	231.78	2.0
STEEL SEAL 400	236.21	6.0
BARITE	27.08	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	KICK WARNING SIGNS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

WellView

Daily Drilling

Report for: 5/7/2010
Report #: 84.0, DFS: 81.06
Depth Progress: 11.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAIN	2	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD @ 2928M	DRILL AHEAD

Operations Summary

DRILL FROM 2913M TO 2924M AND TRIP FOR BIT. LAYDOWN RENTAL STRING OF HEAVYWEIGHT PIPE AND PICK UP RIG SUPPLIED HEAVYWEIGHT PIPE. RUN IN HOLE AND DRILL AHEAD WITH NEW BIT.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:30	2.50	2.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2913m - 2916m
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE >
02:45	03:00	0.25	3.00	21	SAFETY MEETING	DRILLS/BOP, ETC. , HELD B.O.P. DRILL W/ CREW , DISCUSSED CREW DUTIES AND KICK WARNING SIGNS , WELL SECURE IN 79 SEC , LAST MAN ON RIG FLOOR IN 42 SEC
03:00	06:45	3.75	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2916m - 2921m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	10:00	3.00	10.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2921m - 2924m
10:00	10:15	0.25	10.25	5	COND MUD & CIRC	CONT TO CIRCULATE UP SAMPLE
10:15	12:00	1.75	12.00	6	TRIPS	TRIP OUT OF HOLE WITH FR 2924 TO 2339M WITH F/C @ 2913M/2775M
12:00	15:15	3.25	15.25	6	TRIPS	CONT TRIP OUT OF HOLE FR 2339M TO 213M WITH F/C @ 2279M/1451M/213M
15:15	15:30	0.25	15.50	21	SAFETY MEETING	SAFETY MEETING/LAYING OUT HWDP
15:30	16:15	0.75	16.25	6	TRIPS	LAY DOWN 12 SINGLES OF HWDP
16:15	17:15	1.00	17.25	6	TRIPS	CONT TRIP OUT OF HOLE FR 110M TO OOH WITH F/C OUT OF HOLE/FUNCTION BLIND RAMS 6 SEC TO CLOSE/MEAS 16.63M3/CALC 14.28M3/DIFF 2.35M3
17:15	17:45	0.50	17.75	6	TRIPS	MAKE UP BIT AND TRIP IN HOLE TO 102M
17:45	18:15	0.50	18.25	6	TRIPS	PICK UP 8 SINGLES OF HWDP
18:15	18:30	0.25	18.50	6	TRIPS	CONT TRIP IN HOLE FR 212M T0 473M
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	21:15	2.50	21.25	6	TRIPS	CONT TO TRIP IN HOLE FR 473m - 1918m WITH F/C @ 1007m , 1421m & 1918m , FILL PIPE @ 1007m & 1918m
21:15	21:30	0.25	21.50	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 34 SEC TO CLOSE >
21:30	21:45	0.25	21.75	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL HELD WITH CREW , DISCUSSED CREW DUTIES AND KICK WARNING SIGNS WHILE TRIPPING , WELL SECURE IN 62 SEC
21:45	00:00	2.25	24.00	8	REPAIR RIG	DOWNTIME - ENGINES , REPAIR EXHAUST MANIFOLD LEAK ON FLOOR MOTOR

2,923.00mKB, 5/7/2010 09:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	09:00	2,923.00	1120.0	46	13.0	7.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.000	4.000	8.5	1.0	9.0	0.3	6.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		600.000	80.000	0.500	1.500	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
52,562.69	7,972,368.93
Daily Mud Cost	**Mud Additive Cost To Date**
2,772.56	254,762.23
Depth Start (mKB)	**Depth End (mKB)**
2,913.00	2,924.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975
Jeff Imrie	403 771 9498

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	39	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	2.0
STEEL SEAL 400	236.21	5.0
CAUSTIC	47.91	1.0
ALKAPAM A1103D	246.36	1.0
EZ MUD DP	231.78	1.0
PAC R	157.31	1.0
CARBONOX	18.67	1.0
CALCIUM NITRATE	53.24	8.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TR5IPPING OUT OF HOLE
00:00	Safety Meeting	LOCK-OUT PROCEDURES

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #26, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
24	216.0mm, HR-044GDX, 6061790	0.24	8-8-LT-A-E-16.00-WT-TO	610	1.9

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.9/11.1/11.1/11.9	2,913.47	172.0

String Components

HUGHES HR-044GDX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,913.00	2,924.00	71.00	37.75	1.2		18	35	9,000			13,7...

WellView

Daily Drilling

Report for: 5/6/2010
Report #: 83.0, DFS: 80.06
Depth Progress: 42.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAIN	2	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD@2920	DRILL AHEAD AND TRIP FOR BIT

Operations Summary
DRILL AHEAD FROM 2860M -2913M

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
45,251.85	7,919,806.24
Daily Mud Cost	**Mud Additive Cost To Date**
4,642.13	251,989.67
Depth Start (mKB)	**Depth End (mKB)**
2,860.00	2,913.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2860m - 2861m
00:30	00:45	0.25	0.75	10	DEV. SURVEY	TELEDRIFT SURVEY @ 2849m INC. 1.3 DEG , AZI. 195 DEG
00:45	04:30	3.75	4.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2861m - 2874m
04:30	04:45	0.25	4.75	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE >
04:45	05:00	0.25	5.00	10	DEV. SURVEY	TELEDRIFT SURVEY @ 2863m INC. 1.3 DEG , AZI. 195 DEG
05:00	06:45	1.75	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2874m - 2881m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	08:30	1.50	8.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2881m - 2888m
08:30	08:45	0.25	8.75	10	DEV. SURVEY	TELEDRIFT SURVEY @ 2877m INC 1.2,AZI 195
08:45	12:00	3.25	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2888m - 2896m
12:00	16:00	4.00	16.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2896m - 2902m
16:00	16:15	0.25	16.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION ANNULAR 36 SEC TO CLOSE/GREASED BLOCKS AND CROWN
16:15	16:30	0.25	16.50	10	DEV. SURVEY	TELEDRIFT SURVEY
16:30	18:45	2.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2902m - 2907m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING\CREW HANDOVER
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2907m - 2913m

2,906.00mKB, 5/6/2010 18:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	18:30	2,906.00	1115.0	47	13.0	7.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.000	4.000	7.0	1.0	9.0	0.3	6.4
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		600.000	80.000	0.400	1.400	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #26, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
24	216.0mm, HR-044GDX, 6061790	0.24	8-8-LT-A-E-16.00-WT-TO	610	1.9

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.9/11.1/11.1/11.9	2,913.47	172.0

String Components
HUGHES HR-044GDX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,860.00	2,885.00	43.00	17.25	2.3		16	45	9,000			14,5...
Original Hole	2,896.00	2,913.00	60.00	28.50	1.5		18	40	10,000			14,1...

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ALKAPAM A1103D	246.36	1.0
CAUSTIC	47.91	2.0
BARAZAN	184.89	2.0
EZ MUD DP	231.78	4.0
STEEL SEAL 400	236.21	4.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	1.0
EZ MUD DP	231.78	2.0
STEEL SEAL 100	236.21	4.0
CALCIUM NITRATE	53.24	8.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MOUSEHOLE CONNECTIONS
00:00	Safety Meeting	B.O.P. DRILL

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 5/5/2010
Report #: 82.0, DFS: 79.06
Depth Progress: 18.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAIN	4	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLINAG AHEAD @2878M	DRILL AHEAD

Operations Summary
FINISH TRIPPING OUT OF HOLE, LAYDOWN MWD AND PICK UP NEW BHA AND BIT. RUN IN HOLE AND DRILL FROM 2842M - 2860M

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
75,737.20	7,874,554.39
Daily Mud Cost	**Mud Additive Cost To Date**
4,164.21	247,347.54
Depth Start (mKB)	**Depth End (mKB)**
2,842.00	2,860.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTTOMS UP , MIX PILL AND PREPARE TO TRIP
01:00	06:45	5.75	6.75	6	TRIPS	TRIP OUT OF HOLE W/ FLOW CHECKS @ 2836m , 2699m , 2285m & 246m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING, CREW HANDOVER NOTES
07:00	07:15	0.25	7.25	6	TRIPS	CONT TO TRIP OUT OF HOLE F/C OOH MEAS 18.07M3/CALC 14.33M3/DIFF 3.74M3/F/T BLIND RAMS OUT OF HOLE 6 SEC TO CLOSE
07:15	07:30	0.25	7.50	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
07:30	09:00	1.50	9.00	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , LAY DOWN TOOLS
09:00	09:45	0.75	9.75	6	TRIPS	PICK UP BHA PICK UP TELEDRIFT AND LOAD TOOL
09:45	12:00	2.25	12.00	6	TRIPS	TRIP IN HOLE TO 239m TEST TELEDRIFT CONT TO RIH TO 1117m F/C AND FILL PIPE CONT TIH TO 1300m
12:00	13:00	1.00	13.00	6	TRIPS	CONT TRIP IN HOLE FR 1300m TO 2296m F/C AND FILL PIPE
13:00	14:00	1.00	14.00	9	CUT OFF DRILLING LINE	SLIP/CUT DRILLING LINE/12.6 M
14:00	14:15	0.25	14.25	15	TEST B.O.P.	FUNCTION TEST ACCUMULATOR START 20600 KPA CLOSE ANN 33 SEC 11700 KPA CLOSE UPPER PIPE RAMS 6 SEC 10700 KPA CLOSE LOWER PIPE RAMS 6 SEC 9700 KPA OPEN HCR VALVE 2 SEC 9500 KPA, RECHARGE 2 MIN 2 SEC
14:15	15:00	0.75	15.00	6	TRIPS	CONT TRIP IN HOLE FR 2296M TO 2817M
15:00	16:45	1.75	16.75	3	REAMING	REAM & CLEAN FR 2817m TO 2842m
16:45	18:45	2.00	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2842m - 2845m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	19:45	0.75	19.75	2	DRILL ACTUAL	DRILL 216mm HOLRE F/ 2845m - 2847m
19:45	20:00	0.25	20.00	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE >
20:00	20:15	0.25	20.25	10	DEV. SURVEY	DEVIATION SURVEY , TELEDRIFT SURVEY @ 2836m , INC. 1.3 DEG , AZI. 193 DEG
20:15	00:00	3.75	24.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2847m - 2860m

2,844.00mKB, 5/5/2010 06:15

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	06:15	2,844.00	1135.0	57	16.0	9.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.000	6.000	7.0	1.0	8.5	0.5	6.9
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		550.000	80.000	0.300	1.500	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #26, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
24	216.0mm, HR-044GDX, 6061790	0.24	8-8-LT-A-E-16.00-WT-TO	610	1.9

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.9/11.1/11.1/11.9	2,913.47	172.0

String Components
HUGHES HR-044GDX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975
Jeff Imrie	403 771 9498

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	2.0
STEEL SEAL 100	236.21	2.0
BARITE	27.08	72.0
EZ MUD DP	231.78	2.0
STEEL SEAL 400	236.21	2.0
GEL	11.81	29.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING IN HOLE
00:00	Safety Meeting	TRAPPED TABLE TORQUE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,842.00	2,860.00	18.00	6.50	2.8		16	4045	8,950			14,5...

WellView

Daily Drilling

Report for: 5/4/2010
Report #: 81.0, DFS: 78.06
Depth Progress: 29.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAIN	6	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
TRIPPING FOR BIT	PICK UP NEW BHA AND BIT AND DRILL AHEAD

Operations Summary

FINISH TRIPPING IN WITH NEW BIT. DRILL AHEAD FROM 2811M TO 2842M. PREPARE TO TRIP BIT FOR TORQUE AND PUMP PRESSURE INCREASE.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	6	TRIPS	CONT TO TRIP IN HOLE W/ FLOW CHECK @ 1384m , FILL PIPE @ 1384m
00:30	00:45	0.25	0.75	7	RIG SERVICE	RIG SERVICE , GREASE MOVING PARTS AND CHANGE OIL ON FLOOR MOTOR TRANSMISSION , F/T ANNULAR < 33 SEC TO CLOSE >
00:45	03:15	2.50	3.25	6	TRIPS	CONT TO TRIP IN HOLE W/ FLOW CHECKS @ 2289 & 2799m , WASH KELLY TO BOTTOM
03:15	04:00	0.75	4.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2811m - 2813m
04:00	04:15	0.25	4.25	20	DIR. WORK	DIRECTIONAL SURVEY
04:15	06:30	2.25	6.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2813m - 2825m
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	08:30	1.75	8.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2825m - 2826m
08:30	08:45	0.25	8.75	20	DIR. WORK	DIRECTIONAL SURVEYS
08:45	12:00	3.25	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2826m - 2832m
12:00	18:45	6.75	18.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE F/ 2832m - 2839m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREWHAND OVER
19:00	21:00	2.00	21.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2839m - 2840m
21:00	21:15	0.25	21.25	7	RIG SERVICE	RIG SERVICE GREASE ALL MOVING PARTS CHECK ALL OILS F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
21:15	21:30	0.25	21.50	20	DIR. WORK	DIRECTIONAL SURVEYS
21:30	00:00	2.50	24.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE F/ 2840m - 2842m

2,837.00mKB, 5/4/2010 17:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	17:30	2,837.00	1135.0	57	16.0	9.600
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.000	7.000	6.8	1.0	9.0	0.2	6.9
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		550.000	80.000	0.500	1.800	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #25, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
23	216.0mm, GX-35DX, 6075552	0.24	8-8-LT-A-E-16.00-WT-TO	305	1.5

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.9	2,817.34	172.0

String Components

HUGHES GX-35DX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,811.00	2,830.00	19.00	8.00	2.4		20	30	11,050			12,5...
Original Hole	2,832.00	2,842.00	29.00	19.25	0.9		18	30	11,200			1,40...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
76,920.09	7,798,817.19
Daily Mud Cost	**Mud Additive Cost To Date**
3,847.31	243,183.33
Depth Start (mKB)	**Depth End (mKB)**
2,811.00	2,842.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String

Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
4,030	Yes	41	
4,030	Yes	41	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	0.0
CAUSTIC	47.91	1.0
EZ MUD DP	231.78	2.0
PAC R	157.31	2.0
CARBONOX	18.67	2.0
CARBONOX	18.67	3.0
BARATHIN	82.39	4.0
STEEL SEAL 400	236.21	11.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	PIPE SPINNER USE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

WellView

Daily Drilling

Report for: 5/3/2010
Report #: 80.0, DFS: 77.06
Depth Progress: 25.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	8	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD @2821	DRILL AHEAD

Operations Summary
DRILL TO 2811M AND TRIP OUT OF HOLE FOR NEW BIT, NO HOLE PROBLEMS

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
45,582.71	7,721,897.10
Daily Mud Cost	**Mud Additive Cost To Date**
6,657.97	239,336.02
Depth Start (mKB)	**Depth End (mKB)**
2,767.00	2,811.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE >
00:15	00:45	0.50	0.75	6	TRIPS	CONT TO TRIP IN HOLE W/ FLOW CHECK @ 1226m
00:45	01:00	0.25	1.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE , FILL PIPE
01:00	03:15	2.25	3.25	6	TRIPS	CONT TO TRIP IN HOLE W/ FLOW CHECKS @ 2276m & 2744m , FILL PIPE @ 2276m & 2744m , WASH LAST SINGLE TO BOTTOM < NO FILL >
03:15	04:45	1.50	4.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2267m - 2772m
04:45	05:00	0.25	5.00	20	DIR. WORK	DIRECTIONAL SURVEY
05:00	06:45	1.75	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2772m - 2783m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	07:15	0.25	7.25	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2783m - 2786m
07:15	07:30	0.25	7.50	20	DIR. WORK	DIRECTIONAL SURVEYS
07:30	10:15	2.75	10.25	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2786m -2799m
10:15	10:30	0.25	10.50	20	DIR. WORK	DIRECTIONAL SURVEYS
10:30	12:00	1.50	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2799m - 2807m
12:00	14:30	2.50	14.50	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2807m - 2811m
14:30	14:45	0.25	14.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
14:45	15:00	0.25	15.00	20	DIR. WORK	DIRECTIONAL SURVEYS
15:00	18:45	3.75	18.75	6	TRIPS	TRIP OUT OF HOLE PUMPING OUT 4 SINGLES WITH F/C @ 2795m-2658m-2245m-1445m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:00	2.00	21.00	6	TRIPS	CONT TRIP OUT OF HOLE FR 1445m WITH F/C @ 263m
21:00	21:15	0.25	21.25	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
21:15	22:15	1.00	22.25	20	DIR. WORK	DIRECTIONAL WORK , PULL MWD TOOL AND INSTALL NEW TOOL , CHANGE BIT , FLOW CHECK O.O.H.
22:15	23:00	0.75	23.00	6	TRIPS	TRIP IN HOLE W/ FLOW CHECKS @ 260m
23:00	23:15	0.25	23.25	20	DIR. WORK	DIRECTIONAL WORK , SHALLOW TEST MWD TOOL
23:15	00:00	0.75	24.00	6	TRIPS	CONT TO TRIP IN HOLE

2,811.00mKB, 5/3/2010 15:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	15:00	2,811.00	1135.0	55	16.0	7.900
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
1.500	7.000	8.7	1.0	10.0	0.2	6.9
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		500.000	100.000	0.500	1.900	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	82	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ALKAPAM A1103D	246.36	1.0
PAC R	157.31	3.0
LIME	11.36	4.0
CALCIUM NITRATE	53.24	4.0
CAL CARB 325	11.97	4.0
SAWDUST	6.93	35.0
PAC R	157.31	3.0
LIME	11.36	4.0
CARBONOX	18.67	4.0
CAL CARB 325	11.97	8.0
STEEL SEAL 400	236.21	12.0
BARITE	27.08	69.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING OUT
00:00	Safety Meeting	WORKING IN EXTREME WIND CONDITIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #24, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
22	216.0mm, HCD506Z, 7213261	0.31	3-3-CT-A-X-0-WT-PR	284	2.4

Nozzles (mm)	String Length (m)	OD (mm)
9.5/9.5/9.5/9.5	2,796.76	172.0

String Components

HUGHES HCD506Z, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,767.00	2,788.00	21.00	7.75	2.7		12	30	9,500			15,8...
Original Hole	2,807.00	2,811.00	25.00	10.25	1.6		10	30	10,500			17,0...

Daily Drilling

Report for: 5/2/2010
Report #: 79.0, DFS: 76.06
Depth Progress: 77.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	5	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD AT 2785M	DRILLING AHEAD

Operations Summary

TRIP OUT OF HOLE FOR BIT TRIP HAD NO HOLE PROBLEM PICK UP PDC BIT AND CHANGE OUT MUD MOTOR AND RAN BACK IN HOLE WASH AND REAM LAST TO SINGLES DOWN. SAFETY AND BOB DRILL WITH CREWS.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	20	DIR. WORK	DIRECTIONAL SURVEY
00:15	02:00	1.75	2.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2690m - 2703m
02:00	02:15	0.25	2.25	20	DIR. WORK	DIRECTIONAL SURVEY
02:15	04:15	2.00	4.25	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2703m - 2717m
04:15	04:30	0.25	4.50	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE > , F/T HCR VALVE < 3 SEC TO OPEN >
04:30	04:45	0.25	4.75	20	DIR. WORK	DIRECTIONAL SURVEY
04:45	06:15	1.50	6.25	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2717m - 2731m
06:15	06:30	0.25	6.50	20	DIR. WORK	DIRECTIONAL SURVEY
06:30	06:45	0.25	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2731m - 2732m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	08:45	1.75	8.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2732m - 2744m
08:45	09:00	0.25	9.00	20	DIR. WORK	DIRECTIONAL SURVEYS
09:00	10:45	1.75	10.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2744m - 2758m
10:45	11:00	0.25	11.00	20	DIR. WORK	DIRECTIONAL SURVEYS
11:00	12:00	1.00	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2758M - 2767m
12:00	12:45	0.75	12.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
12:45	13:00	0.25	13.00	21	SAFETY MEETING	SAFETY MEETING/REVIEWED JTA#6-E PULLING WITH DRILL STRING
13:00	18:30	5.50	18.50	6	TRIPS	TRIP OUT OF HOLE (PUMPING OUT 2 SINGLES) WITH F/C @ 2754m/2637m/2278m/1398m/243m
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	19:30	0.75	19.50	6	TRIPS	CONT TRIP OUT OF HOLE FR 243m TO 0m F/C OUT OF HOLE
19:30	19:45	0.25	19.75	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
19:45	20:00	0.25	20.00	20	DIR. WORK	DIRECTIONAL WORK , LAY DOWN NMDC AND MWD TOOL
20:00	20:15	0.25	20.25	7	RIG SERVICE	CLEAN - FLOOR , F/T BLIND RAMS O.O.H. < 6 SEC TO CLOSE >
20:15	21:30	1.25	21.50	20	DIR. WORK	DIRECTIONAL WORK , LAY DOWN MOTOR AND PICK UP NEW MOTOR AND SCRIBE , PICK UP MWD TOOL AND MAKE UP BIT
21:30	22:00	0.50	22.00	6	TRIPS	TRIP IN HOLE TO 260m W/ FLOW CHECK @ 260m
22:00	22:15	0.25	22.25	20	DIR. WORK	DIRECTIONAL WORK , SHALLOW TEST MWD TOOL
22:15	22:30	0.25	22.50	21	SAFETY MEETING	SAFETY MEETING , REVIEW JTA AND GO CARD ON SLIP AND CUT DRILL LINE
22:30	23:30	1.00	23.50	9	CUT OFF DRILLING LINE	SLIP & CUT 22m OF DRILLING LINE
23:30	00:00	0.50	24.00	25		CHANGE OIL ON FLOOR MOTOR

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
80,290.52	7,676,314.39
Daily Mud Cost	**Mud Additive Cost To Date**
3,992.70	232,678.05
Depth Start (mKB)	**Depth End (mKB)**
2,690.00	2,767.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
CARBONOX	18.67	1.0
PAC L	157.31	2.0
LIME	11.36	2.0
STEEL SEAL 100	236.21	10.0
LIME	11.36	3.0
BARITE	27.08	40.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING OUT
00:00	Safety Meeting	TRIPING IN HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

2,767.00mKB, 5/2/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,767.00	1130.0	53		6.200

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
1.417			0.0	9.0	0.2	

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
50						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
		5.20	15.70	45.50

BHA #23, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
21	216.0mm, GX-30DX, 6065998	0.25	-------	581	4.7

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1/11.1/11.1/11.1	2,755.58	172.0

String Components

HUGHES GX-30DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,690.00	2,767.00	240.00	51.00	7.7		20	30	10,900			11,9...

WellView

Daily Drilling

Report for: 5/1/2010
Report #: 78.0, DFS: 75.06
Depth Progress: 90.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAIN	4	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD AT 2735M	DRILLING AHEAD POSBLE BIT TRIP

Operations Summary

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T FLARE TANK IGNITER
CHECKED AND TAGGED FIRE EXT. AND EYE WASH STATIONS FOR MAY
CHECKED ALL FLOOR EQUIPMENT
F/T BOTH CROWN SAVERS @ 115 HRS
DP COUNT @ 300 HRS - 171 IN HOLE , 134 ON RACKS , 305 TOTAL 14 STAND WIPER DUE TO TIGHT CONNECTION BACK TO SHOE SAFTEY AND BOP DRILL WITH CREWS

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	2	DRILL ACTUAL	DRILL 216mm HOLE 2574m - 2580m
01:00	01:15	0.25	1.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE >
01:15	01:30	0.25	1.50	20	DIR. WORK	DIRECTIONAL SURVEY
01:30	03:45	2.25	3.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2580m - 2594m
03:45	04:00	0.25	4.00	20	DIR. WORK	DIRECTIONAL SURVEY
04:00	06:15	2.25	6.25	2	DRILL ACTUAL	DRILL 216mm F/ 2594m - 2607m
06:15	06:30	0.25	6.50	20	DIR. WORK	DIRECTIONAL SURVEY
06:30	06:45	0.25	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2607m - 2609m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	09:00	2.00	9.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2609m - 2621m
09:00	09:15	0.25	9.25	20	DIR. WORK	DIRECTIONAL SURVEYS
09:15	11:00	1.75	11.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2621m - 2635m
11:00	11:15	0.25	11.25	20	DIR. WORK	DIRECTIONAL SURVEYS
11:15	12:00	0.75	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR -2635m - 2640m
12:00	13:15	1.25	13.25	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2640m - 2648m
13:15	13:30	0.25	13.50	20	DIR. WORK	DIRECTIONAL SURVEY
13:30	13:45	0.25	13.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2648m - 2651m
13:45	14:30	0.75	14.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
14:30	18:00	3.50	18.00	6	TRIPS	WIPER TRIP 14 STANDS TO CASING SHOE PUMPING OUT 4 SINGLES WITH F/C @ 2644m/2519m/2298m WASHING 4 SINGLES BACK TO BOTTOM (WET TRIP) MEAS 4.41m3 CALC 5m3 DIFF -.59m3
18:00	18:45	0.75	18.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2651m -2653m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	20:00	1.00	20.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2653m - 2662m
20:00	20:15	0.25	20.25	21	SAFETY MEETING	DRILLS/BOP, ETC. , DRILL HELD W/ CREW , DISACUSSED CREW DUTIES AND KICK WARNING SIGNS
20:15	20:30	0.25	20.50	20	DIR. WORK	DIRECTIONAL SURVEY
20:30	22:15	1.75	22.25	2	DRILL ACTUAL	DRILL 216mm HOLR F/ 2662m - 2676m
22:15	22:30	0.25	22.50	20	DIR. WORK	DIRECTIONAL SURVEY

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
42,232.15	7,596,023.87
Daily Mud Cost	**Mud Additive Cost To Date**
2,654.60	228,685.35
Depth Start (mKB)	**Depth End (mKB)**
2,574.00	2,690.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String: Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	2.0
CARBONOX	18.67	2.0
PAC L	157.31	6.0
BARITE	27.08	42.0
CARBONOX	18.67	1.0
LIME	11.36	2.0
PAC L	157.31	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING OUT
00:00	Safety Meeting	MOUSEHOLE CONNECTION W/ DRILL PIPE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
22:30	23:45	1.25	23.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2676m - 2690m
23:45	00:00	0.25	24.00	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE >

2,660.00mKB, 5/1/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,660.00	1125.0	45		6.500

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
1.462			0.0	9.0	0.2	

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
50						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
		-5.10	15.70	127.80

BHA #23, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
21	216.0mm, GX-30DX, 6065998	0.25	-------	581	4.7

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1/11.1/11.1/11.1	2,755.58	172.0

String Components

HUGHES GX-30DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,574.00	2,614.00	113.00	34.75	3.9		20	30	10,650			11,5...
Original Hole	2,640.00	2,690.00	163.00	41.00	8.0		20	30	11,600			

Daily Drilling

Report for: 4/30/2010
Report #: 77.0, DFS: 74.06
Depth Progress: 64.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	4	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
dRILLING AHEAD AT 2615M	DRILL AHEAD

Operations Summary

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
DHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T FLARE TANK IGNITER
CHECKED INSIDE B.O.P. AND STABBING VALVE
F/T CROWN SAVER
VISUAL INSPECTION OF FLARE AND BOOIE LINES
DP COUNT @ 600 - 166 IN HOLE , 139 ON RACKS , 305 TOTAL SAFTEY AND BOP DRILL WITH CREWS.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:30	1.50	1.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2494m - 2498m
01:30	01:45	0.25	1.75	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE >
01:45	02:00	0.25	2.00	20	DIR. WORK	DIRECTIONAL SURVEY
02:00	05:45	3.75	5.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2498m - 2511m
05:45	06:00	0.25	6.00	20	DIR. WORK	DIRECTIONAL SURVEY
06:00	06:45	0.75	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2511m - 2515m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	09:30	2.50	9.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2515m - 2525m
09:30	09:45	0.25	9.75	20	DIR. WORK	DIRECTIONAL SURVEY
09:45	12:00	2.25	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2525m - 2534m
12:00	13:00	1.00	13.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2534m - 2539m
13:00	13:15	0.25	13.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
13:15	13:30	0.25	13.50	20	DIR. WORK	DIRECTIONAL SURVEY
13:30	17:45	4.25	17.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2539m - 2553m
17:45	18:00	0.25	18.00	20	DIR. WORK	DIRECTIONAL SURVEY
18:00	18:45	0.75	18.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2553m - 2557m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	19:15	0.25	19.25	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL HELD W/ CREW , HOLD QUESTION AND ANSWER SESSION ON KICK WARNING SIGNS AND SHUT IN PROCEDURES
19:15	21:30	2.25	21.50	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2557m - 2566m
21:30	21:45	0.25	21.75	20	DIR. WORK	DIRECTIONAL SURVEY
21:45	00:00	2.25	24.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2566m - 2574m

2,553.00mKB, 4/30/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,553.00	1120.0	45		5.300
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.000			0.0	9.0	0.2	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
	-5.90	-5.00	15.70	42.50

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
46,517.21	7,553,791.72
Daily Mud Cost	**Mud Additive Cost To Date**
1,427.46	226,030.75
Depth Start (mKB)	**Depth End (mKB)**
2,494.00	2,574.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
3,680	Yes	41	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	2.0
CARBONOX	18.67	2.0
PAC L	157.31	4.0
GEL	11.81	20.0
LIME	11.36	1.0
CARBONOX	18.67	1.0
PAC L	157.31	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	REVIEWED SAFETY ALERTS
00:00	Safety Meeting	HOUSEKEEPI...

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #23, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
21	216.0mm, GX-30DX, 6065998	0.25	-------	581	4.7

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1/11.1/11.1/11.1	2,755.58	172.0

String Components

HUGHES GX-30DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,494.00	2,518.00	33.00	14.00	2.2		20	30	10,600			12,0...
Original Hole	2,534.00	2,574.00	73.00	24.50	3.8		20	30	10,700			11,5...

Daily Drilling

Report for: 4/29/2010
Report #: 76.0, DFS: 73.06
Depth Progress: 27.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAINING	8	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD @2515M	DRILL AHEAD

Operations Summary

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T CROWN SAVER @ 115 HRS
F/T FLARE TANK IGNITER
CHECKED BOOIE LINES AND FLARE LINES
DP COUNT @ 500 HRS - 163 IN HOLE , 142 ON RACKS , 305 TOTAL
CHECKED STABBING VALVE AND INSIDE B.O.P SAFTEY AND BOP DRILL WITH CREWS ON BIT TRIP THE HOLE WAS IN GOOD SHAPE.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2467m - 2470m
01:00	01:15	0.25	1.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE >
01:15	01:30	0.25	1.50	20	DIR. WORK	DIRECTIONAL SURVEYS
01:30	06:45	5.25	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2470m - 2484m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	07:15	0.25	7.25	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2484m - 2485m
07:15	08:30	1.25	8.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
08:30	12:00	3.50	12.00	6	TRIPS	TRIP OUT OF HOLE FR 2885m TO 850m WITH F/C @ 2479m/2341m/1240m
12:00	13:45	1.75	13.75	6	TRIPS	CONT TRIP OUT OF HOLE FR 850m TO 0m WITH F/C @ 250m/OOH/F/T BLIND RAMS OOH 6 SEC TO CLOSE/MEAS 15.69m3/CALC 12.87m3/DIFF 2.82m3
13:45	14:00	0.25	14.00	21	SAFETY MEETING	SAFETY MEETING/WITH DIRECTIONAL HANDS
14:00	15:45	1.75	15.75	20	DIR. WORK	DIRECTIONAL WORK/CHANGE OUT MWD TOOL
15:45	18:45	3.00	18.75	6	TRIPS	TRIP IN HOLE TO 1693M WITH F/C @ 260m/1192m/PALSE TEST @ 260m/1192m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HAND OVER MEETING
19:00	20:00	1.00	20.00	6	TRIPS	CONT TRIP IN HOLE FR 1693m , FILL PIPE @ 2014m , FLOW CHECKS @ 2014m , 2290m & 2470m , WASH LAST SINGLE TO BOTTOM
20:00	20:15	0.25	20.25	21	SAFETY MEETING	DRILLS/BOP, ETC. , DISCUSSED KICK WARNING SIGNS AND SHUT IN PROCEDURES
20:15	20:30	0.25	20.50	3	REAMING	REAM F/ 2479m - 2485m
20:30	23:45	3.25	23.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2485m - 2494m
23:45	00:00	0.25	24.00	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE >

2,485.00mKB, 4/29/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,485.00	1110.0	43		6.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
1.480			0.0	9.0	0.3	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
	-9.00	-4.00		64.90

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
76,243.64	7,507,274.51
Daily Mud Cost	**Mud Additive Cost To Date**
686.64	224,603.29
Depth Start (mKB)	**Depth End (mKB)**
2,467.00	2,494.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
3,395	Yes	41	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	82	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	1.0
CAUSTIC	47.91	1.0
CARBONOX	18.67	2.0
PAC L	157.31	3.0
GEL	11.81	10.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING OUT OF HOLE
00:00	Safety Meeting	SHUT-IN PROCEDURES

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #23, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
21	216.0mm, GX-30DX, 6065998	0.25	-------	581	4.7

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1/11.1/11.1/11.1	2,755.58	172.0

String Components

HUGHES GX-30DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,485.00	2,494.00	9.00	3.25	2.8		20	30	10,500			12,0...

Daily Drilling

Report for: 4/28/2010
Report #: 75.0, DFS: 72.06
Depth Progress: 205.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
RAINING	5	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AT 2486M	DRILLING AHEAD

Operations Summary

Morning Tour Notes:
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
ALL BOP COMPONENTS MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE
JTA REVIEWED BOP DRILL 14-5 MOUSE HOLE CONNECTIONS 2-D 2-C RIGTONG OPERATION
PIPE IN HOLE BOP DRILL AND SAFTEY MEETING WITH CREWS BEFORE WE DRILL INTO THE PLATFORM TARGET

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:45	1.75	1.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR2396m TO 2402m
01:45	02:00	0.25	2.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER F/T ANNULAR 32sec CLOSE OPEN
02:00	06:45	4.75	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR-2402m TO 2417m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	07:15	0.25	7.25	21	SAFETY MEETING	DRILLS/BOP, ETC.PRIOD TO DRILLING INTO POSSIBLE KICK OR LOST CIRC ZONE
07:15	07:45	0.50	7.75	20	DIR. WORK	DIRECTIONAL SURVEYS
07:45	11:00	3.25	11.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2417m - 2429m
11:00	11:15	0.25	11.25	20	DIR. WORK	DIRECTIONAL SURVEY
11:15	12:00	0.75	12.00	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2429m - 2432m
12:00	15:30	3.50	15.50	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2432m - 2443m
15:30	15:45	0.25	15.75	7	RIG SERVICE	RIG SERVICE-GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
15:45	16:00	0.25	16.00	20	DIR. WORK	DIRECTIONAL SURVEYS
16:00	18:45	2.75	18.75	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE FR 2443m - 2452m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	19:30	0.50	19.50	2	DRILL ACTUAL	CONT TO DRILL 216mm HOLE F/ 2452m - 2454m
19:30	19:45	0.25	19.75	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL WITH CREW
19:45	20:15	0.50	20.25	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2454m - 2457m
20:15	20:30	0.25	20.50	20	DIR. WORK	DIRECTIONAL SURVEYS
20:30	00:00	3.50	24.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2457m - 2467m

2,450.00mKB, 4/28/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,450.00	1110.0	45		5.300
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
1.476			0.0	9.0	0.3	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
15.00		-3.10		65.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
59,495.40	7,431,030.87
Daily Mud Cost	**Mud Additive Cost To Date**
807.40	223,916.65
Depth Start (mKB)	**Depth End (mKB)**
2,396.00	2,467.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,375	Yes	41	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,373	Yes	41	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	1.0
LIME	11.36	1.0
CARBONOX	18.67	2.0
PAC L	157.31	4.0
GEL	11.81	10.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	DRILLING INTO PAYZONE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #22, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
20	216.0mm, GX35DX, 5163640	0.24	-------	1,504	5.7

Nozzles (mm)	String Length (m)	OD (mm)
	2,481.48	172.0

String Components

HUGHES GX35DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,396.00	2,432.00	134.00	39.00	3.4		20	30	11,100			10,9...
Original Hole	2,298.00	2,467.00	303.00	49.75	15.7		18	30	11,600			10,9...

Daily Drilling

Report for: 4/27/2010
Report #: 74.0, DFS: 71.06
Depth Progress: 77.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	8	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD @ 2415m	DRILLING AHEAD POSSIBLE BIT TRIP

Operations Summary

Morning Tour Notes:
VIS INSP BRAKE LINKAGE PINS STABBING VALVE W/KEY INSIDE BOP MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE F/T FLARE IGNITOR
JTA REVIEWED 2-A HOUSEKEEPING 2-C RIGTONG OPERATION 2-B CATWALK OPERATIONS
PIPE IN HOLE=153 ON LOCATION=152 TOTAL=305 CORRECT@0800HR SAFTEY MEETING AND BOP DRILL FOR THE NEW CREW THAT CAME TODAY

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:45	4.75	4.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR-2319m TO 2333m
04:45	05:00	0.25	5.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER F/T ANNULAR 32sec CLOSE OPEN
05:00	06:45	1.75	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR-2333m TO 2337m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	07:30	0.50	7.50	2	DRILL ACTUAL	DRILL 216mm HOLE FR-2337m TO 2339m
07:30	08:00	0.50	8.00	20	DIR. WORK	DIRECTIONAL SURVEYS
08:00	11:30	3.50	11.50	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2339m - 2356m
11:30	12:00	0.50	12.00	20	DIR. WORK	DIRECTIONAL SURVEYS
12:00	13:00	1.00	13.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2356m - 2361m
13:00	13:15	0.25	13.25	20	DIR. WORK	DIRECTIONAL SURVEYS
13:15	17:15	4.00	17.25	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2361m - 2374m
17:15	17:30	0.25	17.50	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , F/T UPPER AND LOWER PIPES < 6 SEC TO CLOSE >
17:30	17:45	0.25	17.75	20	DIR. WORK	DIRECTIONAL SURVEYS
17:45	18:45	1.00	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2374m - 2379m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	21:15	2.25	21.25	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2379m - 2388m
21:15	21:30	0.25	21.50	21	SAFETY MEETING	DRILLS/BOP, ETC. W/CREW NOSITE SUPERVISORS DISCUSSED WELL CONTROL WHILE DRILLING
21:30	23:45	2.25	23.75	2	DRILL ACTUAL	DRILL 216mm HOLE FR-2388m TO 2396m
23:45	00:00	0.25	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS

2,381.00mKB, 4/27/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,381.00	1110.0	45	12.0	5.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
-0.500			0.0	9.0	0.3	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
3.00		-6.10		50.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
44,716.84	7,371,535.47
Daily Mud Cost	**Mud Additive Cost To Date**
10,457.96	223,109.25
Depth Start (mKB)	**Depth End (mKB)**
2,319.00	2,396.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,320	Yes	41	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,300	Yes	41	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
BARAZAN	184.89	4.0
PAC L	157.31	8.0
CARBONOX	18.67	8.0
BARA DEFOAM HP	354.39	13.0
BICARB	33.71	55.0
LIME	11.36	1.0
CARBONOX	18.67	1.0
CAUSTIC	47.91	2.0
BARAZAN	184.89	3.0
PAC L	157.31	6.0
GEL	11.81	15.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MOUSEHOLE CONNECTIONS
00:00	Safety Meeting	BOP DRILL

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #22, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
20	216.0mm, GX35DX, 5163640	0.24	-------	1,504	5.7

Nozzles (mm)	String Length (m)	OD (mm)
	2,481.48	172.0

String Components

HUGHES GX35DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,319.00	2,356.00	58.00	18.00	3.5		12	25	10,300			10,9...
Original Hole	2,356.00	2,396.00	98.00	28.50	3.8		20	30	11,500			10,5...

WellView

Daily Drilling

Report for: 4/26/2010
Report #: 73.0, DFS: 70.06
Depth Progress: 21.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	7	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD	DRILLING AHEAD

Operations Summary

Morning Tour Notes:
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE F/T FLARE IGNITOR
JTA REVIEWED HANDLING DIR TOOLS 20-1 2-B CATWALK OPERATION 2-C RIGTONG OPERATION PERFORM
LEAK OFF TEST LEAKOFF GRANDIENT OF 20.29 APPLIED PRESSURE OF 21000KPA

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	21	SAFETY MEETING	REVIEWED J.T.A ON PICKING UP B.H.A
00:15	01:30	1.25	1.50	6	TRIPS	PICK UP BHA 2 6.5 DC 12 H.W.D.P
01:30	02:15	0.75	2.25	20	DIR. WORK	DIRECTIONAL WORK SHALLOW TEST M.W.D TOOL
02:15	02:45	0.50	2.75	6	TRIPS	TRIP OUT OF HOLE CHECK M.W.D TOOL
02:45	03:00	0.25	3.00	21	SAFETY MEETING	SAFETY MEETING W/CREW DIRECTIONAL HAND PRIOR TO LAYING DOWN NM DC&M.W.D TOOL
03:00	03:15	0.25	3.25	20	DIR. WORK	DIRECTIONAL WORK SWAP OUT AND REPROGAM M.W.D TOOL
03:15	03:30	0.25	3.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER F/T ANNULAR 32sec CLOSE OPEN
03:30	04:30	1.00	4.50	20	DIR. WORK	CONT DIRECTIONAL WORK SWAP OUT AND REPROGAM M.W.D TOOL
04:30	05:00	0.50	5.00	6	TRIPS	MAKE UP BHA AND TRIP IN HOLE
05:00	05:45	0.75	5.75	20	DIR. WORK	DIRECTIONAL WORK SHALLOW TEST M.W.D TOOL
05:45	06:45	1.00	6.75	6	TRIPS	CONT TRIP IN HOLE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	09:00	2.00	9.00	6	TRIPS	TRIP IN HOLE , LAY DOWN LAST 12 TOPS
09:00	09:30	0.50	9.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE , TREAT MUD FOR CONTAMINATION DUE TO CEMENT PRIOR TO DRILL OUT
09:30	09:45	0.25	9.75	21	SAFETY MEETING	DRILLS/BOP, ETC. ; B.O.P. DRILL HELD W/ CREW PRIOR TO DRILL OUT , WELL SECURE IN 78 SEC , LAST HAND ON RIG FLOOR IN 45 SEC
09:45	12:00	2.25	12.00	2	DRILL ACTUAL	DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE ; TAG CEMENT @ 2264.74m , PLUG @ 2265.00m , FLOAT COLLAR @ 2265.65 & SHOE @ 2290.40m
12:00	12:15	0.25	12.25	2	DRILL ACTUAL	CONT TO DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE
12:15	14:00	1.75	14.00	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2298m - 2303m
14:00	17:00	3.00	17.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE 2 CIRCULATIONS PRIOR TO F.I.T.
17:00	17:15	0.25	17.25	21	SAFETY MEETING	SAFETY MEETING ON F.I.T.
17:15	17:45	0.50	17.75	15	TEST B.O.P.	FORMATION INTEGRITY TEST
17:45	18:45	1.00	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2303m - 2306m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	DRILL 216mm HOLE F/ 2306m - 2319m
23:45	00:00	0.25	24.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER F/T UPPER PIPE RAMS AND LOWER PIPE RAMS 5sec CLOSE OPEN

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
541,335.60	7,326,818.63
Daily Mud Cost	**Mud Additive Cost To Date**
4,084.64	212,651.29
Depth Start (mKB)	**Depth End (mKB)**
2,298.00	2,319.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String: Intermediate, 2,292.50mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	
3,060	Yes	41	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARA DEFOAM HP	354.39	2.0
BICARB	33.71	6.0
CITRIC ACID	158.68	20.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DRILL CEMENT
00:00	Safety Meeting	HEARING PROTECTION

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

2,308.00mKB, 4/26/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,308.00	1110.0	42		4.300

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
1.500			0.0	9.0	0.3	

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
45						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				54.00

BHA #22, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
20	216.0mm, GX35DX, 5163640	0.24	-------	1,504	5.7

Nozzles (mm)	String Length (m)	OD (mm)
	2,481.48	172.0

String Components

HUGHES GX35DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,298.00	2,319.00	21.00	7.50	2.8		12	30	11,000			12,0...

Daily Drilling

Report for: 4/25/2010
Report #: 72.0, DFS: 69.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	2	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Running in hole to drill out	Drilling ahead

Operations Summary

Morning Tour Notes:
18-2 GENEGAL LOCKOUT PROCEDURES 22-3 CLEANING MUD TANKS Pressure tested BOPs and surface casing as per drilling program From 1300 hrs to 18.45 hrs

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:30	1.50	1.50	25		CLEAN CELLER AFTER CEMENT JOB PRIOR TO NIPPLE DOWN BOP TO SET CASING SLIPS,CLEAN MUD TANKS
01:30	01:45	0.25	1.75	21	SAFETY MEETING	PRE-JOB SAFETY REWIEWED JTA NIPPLE DOWN BOP
01:45	03:00	1.25	3.00	14	NIPPLE UP B.O.P.	NIPPLE DOWN BOPS TO SET CASING SLIPS
03:00	06:45	3.75	6.75	13	WAIT ON CEMENT	WAIT ON CEMENT
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	07:45	0.75	7.75	14	NIPPLE UP B.O.P.	SET CASING SLIPS
07:45	09:45	2.00	9.75	14	NIPPLE UP B.O.P.	CUT AND FLARE INTERMEDIATE CASING , CLEAN UP CASING AND INSTALL SEAL ASSEMBLY
09:45	10:00	0.25	10.00	21	SAFETY MEETING	SAFETY MEETING , REVIEW GO CARD AND JTA ON NIPPLE UP B.O.P.
10:00	12:00	2.00	12.00	14	NIPPLE UP B.O.P.	NIPPLE UP BOP , PLACE ON BOWL AND NIPPLE UP , INSTALL CHOKE LINE AND FLOW TEE AND LINE
12:00	12:45	0.75	12.75	14	NIPPLE UP B.O.P.	CONT NIPPLE UP BOP
12:45	13:00	0.25	13.00	21	SAFETY MEETING	SAFETY MEETING W/ BJ ON PRESSURE TESTING
13:00	18:45	5.75	18.75	15	TEST B.O.P.	TEST BOP , TEST CASING TO 35000KPA FOR 10 MINS , TEST UPPER & LOWER PIPE RAMS/BLIND RAMS/CHOKE LINE/CHOKE LINE VALVES/KILL LINE VALVES/MANIFOLD VALVES/CHOKES/UPPER & LOWER KELLY COCKS/STABBING VALVE/INSIDE BOP TO 1500KPA LOW AND 21000KPA HIGH FOR 10 MINS
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	21:30	2.50	21.50	15	TEST B.O.P.	CONT TEST BOP , TEST ANNULAR TO 1500KPA LOW AND 17500KPA HIGH , ACCUMLATOR F/T START PRESSURE 21,000kpa CLOSE ANNULAR PRESSURE LOSS 9,100 CLOSE UPPER PIPE RAMS PRES LOSS 1,000kpa CLOSE LOWE PIPE RAMS PRES LOSS 1,000kpa OPEN HCR VALVE PRESS LOSS 300kpa
21:30	21:45	0.25	21.75	21	SAFETY MEETING	SAFETY MEETING W/CREW SCHLUMBERGER ONSITE SUPERVISORS PRIOR TO PICKING UP DIR TOOLS
21:45	00:00	2.25	24.00	20	DIR. WORK	DIRECTIONAL WORK PICK UP MUD MOTOR MAKE UP BIT SCRIBE MWD TOOL INSTALL MWD TOOL

2,298.00mKB, 4/25/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,298.00	1100.0	42		
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
0.167				0.5	0.4	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				186.90

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
246,196.00	6,785,483.03
Daily Mud Cost	**Mud Additive Cost To Date**
317.36	208,566.65
Depth Start (mKB)	**Depth End (mKB)**
2,298.00	2,298.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	60	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CITRIC ACID	158.68	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	PRESSURE TESTING
00:00	Safety Meeting	PICKING UP DIR TOOLS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 4/24/2010
Report #: 71.0, DFS: 68.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
DRIZZLE / MIST	4	GOOD	GPPD

Operations at Report Time	Operations Next Report Period
SET SLIPS AND CUT CASING	DRILL OUT

Operations Summary

Morning Tour Notes:
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR
JTA REVIEW 2-C CATWALK VAC TRUCKS ARE STILL ON LOCATION CLEAING TANKS OPERATION 6-A SETTING AND PULLING SLIPS CEMENTED 244.5MM CSG WITH BJ. PUMP 9M3 OF H2O,3M3 OF SCAVENGER,34M3 LEAD,76M3 OF TAIL SLURRY,10M3 H20. BUMP PLUG @23.15 HELD WE HAD 34M3 LEAD SLURRY RETURNS.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	07:45	7.75	7.75	12	RUN CASING AND CEMENT	CONT RUN 244.5mm CASING
07:45	08:00	0.25	8.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
08:00	08:15	0.25	8.25	21	SAFETY MEETING	SAFETY MEETING W/CREW WEATHERFORD ONSITE SUPERVISORS
08:15	12:00	3.75	12.00	12	RUN CASING AND CEMENT	RUN 244.5mm CASING , CIRC. FOR 5 MINS @ 1604m
12:00	14:45	2.75	14.75	12	RUN CASING AND CEMENT	CONT TO RUN 244.5mm CASING
14:45	15:00	0.25	15.00	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS
15:00	18:30	3.50	18.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE 244.5mm INTERMEDIATE CASING PRIOR TO CEMENT JOB
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING W/ BJ CEMENTING SERVICES
19:00	00:00	5.00	24.00	12	RUN CASING AND CEMENT	CEMENT 244.5mm INTERMEDIATE CASING W/ BJ CEMENTERSB PUMP 9m3 H20 3m3 SCAVENGER 34M3 LEAD SLURRY,76m3 TAIL SLURRY 10m3 H20

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
27,354.00	6,539,287.03
Daily Mud Cost	**Mud Additive Cost To Date**
1,006.90	208,249.29
Depth Start (mKB)	**Depth End (mKB)**
2,298.00	2,298.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Intermediate, 2,292.50mKB	

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	85	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ALKAPAM A1103D	246.36	1.0
CALCIUM NITRATE	53.24	5.0
BARATHIN	82.39	6.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RUN CASING & CEMENT
00:00	Safety Meeting	SETTING CASING SLIPS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
DRIZZLE / MIST	4	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
RUNNING 222.4mm CASING AT 1040M	CEMENT CASING

Operations Summary

Morning Tour Notes:
VIS INSP BRAKE LINKAGE PINS STABBING VALVE W/KEY INSIDE BOP DEADMAN ANCHOR MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE BOP COMPONENTS
JTA REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS Running in the hole with 222.4 mm casing

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	6	TRIPS	CONT TRIP IN HOLE W/FLOW CHECKS@2098m WASH FR-2288m TO 2298m
01:00	01:15	0.25	1.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER F/T H.C.R 3sec CLOSE OPEN
01:15	02:30	1.25	2.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
02:30	06:45	4.25	6.75	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@2286m2204m1188m141m LAY OUT 4 H.W.DP DAMAGED HARD BAND WORN OFFCAL=9.25 MEAS=10.31 DIFF=+1.06
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	07:30	0.50	7.50	6	TRIPS	TRIP IN HOLE W/FLOW CHECK @ 585m
07:30	07:45	0.25	7.75	21	SAFETY MEETING	SAFETY MEETING ON SLIP AND CUT DRILL LINE , REVIEW JTA AND GO CARD
07:45	08:45	1.00	8.75	9	CUT OFF DRILLING LINE	SLIP & CUT 17m OFF DRILLING LINE
08:45	09:15	0.50	9.25	6	TRIPS	TRIP IN HOLE W/ FLOW CHECK @ 1137m
09:15	09:30	0.25	9.50	5	COND MUD & CIRC	FILL PIPE AND CIRCULATE 5 MINS
09:30	10:45	1.25	10.75	6	TRIPS	TRIP IN HOLE W/ FLOW CHECK @ 2233m
10:45	11:15	0.50	11.25	3	REAMING	WASH AND REAM 4 SINGLES TO BOTTOM < NO FILL >
11:15	12:00	0.75	12.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO RUN CASING
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS ; F/T ANNULAR < 33 SEC TO CLOSE >
12:15	14:45	2.50	14.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO RUN CASING ; MIX BEADS INTO SYSTEM
14:45	18:45	4.00	18.75	6	TRIPS	TRIP OUT OF HOLE TO RUN CASING W/ FLOW CHECKS @ 2284m , 2146m , 1155m & 109m 0m CAL=10.90 MEAS=12.34 DIFF=+1.44 F/T BLINDS RAMS 5sec C/O
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	19:30	0.50	19.50	6	TRIPS	LAY DOWN BHA , 2 8\ D.C.S
19:30	20:15	0.75	20.25	12	RUN CASING AND CEMENT	PULL WEAR BUSHING
20:15	20:30	0.25	20.50	21	SAFETY MEETING	SAFETY MEETING W/CREW AND WEATHERFORD ONSITE SUPERVISORS PRIOR TO RIG IN TONGHAND
20:30	21:45	1.25	21.75	23	WAITING ON	W/O THIRD PARTY TOOLS CHANGE OUT WEATHERFORD POWER UNIT
21:45	00:00	2.25	24.00	12	RUN CASING AND CEMENT	RUN CASING 244.5

2,292.00mKB, 4/23/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,292.00	1230.0	86		14.400
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
		0.0		8.75	1.2	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
65						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
	-2.00			41.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
27,485.00	6,511,933.03
Daily Mud Cost	**Mud Additive Cost To Date**
23,149.84	207,242.39
Depth Start (mKB)	**Depth End (mKB)**
2,298.00	2,298.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,560	Yes	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,560	Yes	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARITE	27.08	116.0
BARITE	27.08	42.0
LUBRA GLIDE	393.15	48.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRAPPED TORQUE
00:00	Safety Meeting	POWER TONGS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 4/22/2010
Report #: 69.0, DFS: 66.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	4	GOOD	Some tight spots

Operations at Report Time	Operations Next Report Period
Wipper trip	Run Intermediate casing

Operations Summary

Morning Tour Notes:
VIS INSP BRAKE LINKAGE PINS STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE
JTA REVIEW 2-A HOUSEKEEPING 2-C RIGTONG OPERATION 2-F OPERATING DRILLER CONSOLE
PIPE IN HOLE@0100HR=156 ON RACKS=149 TOTAL=305 CORRECT WIPER TRIP PRIOR TO RUNING 9 5/8 CASING

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T ANNULAR 33sec CLOSE OPEN F/T CROWN SAVER
00:15	11:00	10.75	11.00	23	WAITING ON	CIRCULATE W/O THIRD PARTY PERSONNEL
11:00	12:00	1.00	12.00	6	TRIPS	TRIP OUT OF HOLE TO LAY DOWN HWDP W/ FLOW CHECKS @ 2284m & 2147m
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T UPPER AND LOWER PIPES < 6 SEC TO CLOSE EACH >
12:15	14:00	1.75	14.00	3	REAMING	WORK TIGHT PIPE AND REAM BACK INTO 2123m
14:00	14:15	0.25	14.25	6	TRIPS	TRIP IN HOLE W/ FLOW CHECK PRIOR TO CIRC. @ BTM
14:15	18:45	4.50	18.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE , PUMP 2 SWEEPS TO DETERMINE HOLE VOLUME
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	22:00	3.00	22.00	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@2152M1507m581m CAL=6.94 MEAS=8.04 DIFF=+1.10
22:00	00:00	2.00	24.00	6	TRIPS	TRIP IN HOLE W/FLOW CHECKS@1325m2019m

2,298.00mKB, 4/22/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,298.00	1225.0	72	17.0	13.900
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
1.219			0.0	8.75	1.2	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
70						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
			10.00	

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
29,122.00	6,484,448.03
Daily Mud Cost	**Mud Additive Cost To Date**
2,274.72	184,092.55
Depth Start (mKB)	**Depth End (mKB)**
2,298.00	2,298.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
1,600	Yes	38	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,600	Yes	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARITE	27.08	84.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	WORKING W/ GREEN HAND
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 4/21/2010
Report #: 68.0, DFS: 65.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	3	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Circ on bottom while waiting on cement	Circ on bottom while waiting on cement

Operations Summary

Morning Tour Notes:
REVIEWED JTAS 11-1,RIGGING UP LOGGERS,11-2 OPEN HOLE LOGGING,7-3 WORK ON MUD PUMPS, CHECK MANIFOLD ALIGNMENT,FT FLARE STACK IGNITER,CHECK STABBING VALVE,INSIDE BOP LOGS RUN WAS A COMPENSATED DENSITY,ACOUSTIC,CALIPER,COMPENSATED NEUTRON,FORMATION TESTER,GRAMMA RAY,INDUCTION ALL LOGGES WERE RUN FROM 599.5M TO 2296.8M

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	11	WIRELINE LOGS	LOG OPEN HOLE,RUN#1 PEX,AIT
00:30	00:45	0.25	0.75	7	RIG SERVICE	GREASE DRAWORKS,CHECK FLOOR MOTOR & TRANSMISSION OIL
00:45	02:00	1.25	2.00	11	WIRELINE LOGS	CONT TO LOG OPEN HOLE
02:00	04:30	2.50	4.50	11	WIRELINE LOGS	COMPLETED RUN #1 RIG OUT & RIG UP RUN #2 TRIP TANK VOLS. RUN #1 BEFORE 2.86m3 AFTER 2.59m3 DIFF .27m3
04:30	08:00	3.50	8.00	11	WIRELINE LOGS	RUN IN LOG #2 DSI-PPC
08:00	09:30	1.50	9.50	11	WIRELINE LOGS	WIRELINE LOGS , RIG OUT TOOLS FROM RUN #2 AND RIG UP TOOLS FOR RUN #3 ; RUN #2 2.59m^3 @ START AND 2.49m^3 WHEN OUT OF HOLE WIRELINE LOGS , RUN #3 TOOLS RUN MDT
09:30	21:30	-12.00	-2.50	IN...		

2,298.00mKB, 4/21/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,298.00	1220.0	107		18.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
8.000		1.0		9.0	1.0	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
	-0.40			

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
110,852.00	6,455,326.03
Daily Mud Cost	**Mud Additive Cost To Date**
	181,817.83
Depth Start (mKB)	**Depth End (mKB)**
2,298.00	2,298.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIGGING UP LOGGERS
00:00	Safety Meeting	BOP DRILL

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 4/20/2010
Report #: 67.0, DFS: 64.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	5	GOOD	Good

Operations at Report Time	Operations Next Report Period
Wiper trip for casing	Wipper trip before casing

Operations Summary
Wire line logs went to bottom with very little problems first log run was a fex,ait on bottom at 2300 hrs

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:15	2.25	2.25	20	DIR. WORK	LAY OUT DIR.TOOLS
02:15	03:00	0.75	3.00	25		FT BLIND RAMS WHILE OUT OFF HOLE 5secs OPEN/CLOSE CLEAN FLOOR PICK UP BIT SUB,CROSSOVER
03:00	03:15	0.25	3.25	25		MAKE UP BIT
03:15	03:45	0.50	3.75	6	TRIPS	TRIP IN HOLE
03:45	04:00	0.25	4.00	25		LAY OUT TONGS FOR 9in. DRILL COLLARS
04:00	06:45	2.75	6.75	6	TRIPS	TRIP IN HOLE W/FLOW CHECKS@601m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	09:15	2.25	9.25	6	TRIPS	CONT TRIP IN HOLE W/FLOW CHECKS@1800m
09:15	11:30	2.25	11.50	3	REAMING	REAM&WASH TO BOTTOM FR-2298m
11:30	12:00	0.50	12.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO WIPER TRIP
12:00	12:30	0.50	12.50	5	COND MUD & CIRC	CONT CONDITION MUD & CIRCULATE
12:30	13:30	1.00	13.50	6	TRIPS	WIPER TRIP 7STD DP W/FLOW CHECKS@2291m 2098m
13:30	14:30	1.00	14.50	6	TRIPS	TRIP IN HOLE WASH FR-2280m TO 2298m
14:30	14:45	0.25	14.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER F/T ANNULAR33sec open close
14:45	15:15	0.50	15.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
15:15	18:45	3.50	18.75	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@2290m2152m 1188m PULLED TIGHT HOLE@2267m TO 2256m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	20:30	1.50	20.50	6	TRIPS	FT CROWN SAVER TRIP OUT OF HOLE W/FLOW CHECKS @ 171m,OUT OF HOLE, FT BLIND RAMS OUT OFF HOLE 5secs OPEN/CLOSE
20:30	21:00	0.50	21.00	21	SAFETY MEETING	SAFETY MEETING WITH LOGGING CREW,COMPANY MAN
21:00	00:00	3.00	24.00	11	WIRELINE LOGS	LOGGING HOLE,LOG #1 PEX,AIT ON BOTTOM @ 2300HRS, WORK ON PUMPS

2,298.00mKB, 4/20/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,298.00	1220.0	90		21.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.000			0.0	9.0	1.3	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				40.00

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
37,353.00	6,344,474.03
Daily Mud Cost	**Mud Additive Cost To Date**
1,137.36	181,817.83
Depth Start (mKB)	**Depth End (mKB)**
2,298.00	2,298.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARITE	27.08	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	RIGGING UP LOGGERS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 4/19/2010
Report #: 66.0, DFS: 63.06
Depth Progress: 34.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	6	GOOD	Some tight spots

Operations at Report Time	Operations Next Report Period
Tripping in hole for wiper trip	Wire line logging

Operations Summary

Morning Tour Notes:
CHECKED MANIFOLD ALIGNMENT,BRAKE LINKAGE,STABBING VALVE,INSIDE BOP
FT FLARE STACK IGNITER,
PIPE COUNT 151 IN HOLE 154 ON RACKS 305 TOTAL PULL OUT OF HOLE TO LAY DOWN DIR.TOOLS TIGHT HOLE FROM 2298 BACK TO 2216M ALSO TRIGHT SPOT AT 710M

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:45	0.75	0.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR 2264m TO 2266m
00:45	01:00	0.25	1.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS,CHECKED ALL OILS,FT ANNULAR 33secs CLOSE FT CROWN SAVER
01:00	01:45	0.75	1.75	25		CHANGE HEAD ON PUMP # 1 # 3 CYL.
01:45	06:00	4.25	6.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR 2266m TO 2278m
06:00	06:45	0.75	6.75	20	DIR. WORK	DIRECTIONAL SURVEYS
06:45	08:00	1.25	8.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR 2278m TO 2281m
08:00	12:00	4.00	12.00	2	DRILL ACTUAL	DRILL 311Mmm HOLE FR 2281m TO 2291m
12:00	12:15	0.25	12.25	20	DIR. WORK	DIRECTIONAL SURVEYS
12:15	14:45	2.50	14.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2291m TO 2298m
14:45	15:00	0.25	15.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER F/T UPPER AND LOWER PIPE RAMS 5sec CLOSE OPEN
15:00	16:00	1.00	16.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
16:00	18:45	2.75	18.75	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@2288m 2094m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	23:30	4.50	23.50	6	TRIPS	CONT TRIP OUT OF HOLE W/FLOW CHECKS@ 1132m 610m 211m OUT OFF HOLE,TRIP MUD MEAS. 16.1 CALC. 13.18 DIFF.2.92
23:30	23:45	0.25	23.75	25		SAFETY MEETING WITH DIR.HAND ON LAYING OUT TOOOLS
23:45	00:00	0.25	24.00	20	DIR. WORK	LAYING OUT DIR. TOOLS

2,298.00mKB, 4/19/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,298.00	1225.0	90	90.0	21.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
0.400			1.0	9.0	1.3	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		550.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
	5.50			

BHA #20, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
19	311.0mm, GX-30MDX, 6074879	0.30	1-1-WT-H-E-1.00-NO-TD	520	2.2

Nozzles (mm)	String Length (m)	OD (mm)
15.9/14.3/14.3	2,275.09	307.0

String Components

HUGHES GX-30MDX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,264.00	2,291.00	112.00	50.75	2.6		22	100	17,200			16,0...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
81,621.37	6,307,121.03
Daily Mud Cost	**Mud Additive Cost To Date**
7,261.37	180,680.47
Depth Start (mKB)	**Depth End (mKB)**
2,264.00	2,298.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
5,600	Yes	80	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
CARBONOX	18.67	2.0
BARITE	27.08	168.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0
BARITE	27.08	84.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CHANGING OUT TONG DIES
00:00	Safety Meeting	LAYING OUT 9in. DRILL COLLARS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,291.00	2,298.00	119.00	53.25	2.8		22	90	16,600			17,0...

WellView

Daily Drilling

Report for: 4/18/2010
Report #: 65.0, DFS: 62.06
Depth Progress: 47.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	8	GOOD	TIGHT
Operations at Report Time		**Operations Next Report Period**	
DRILLING AHEAD		LOGGING	

Operations Summary
DRILLED FROM 2227 TO 2278 M

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
68,997.00	6,225,499.66
Daily Mud Cost	**Mud Additive Cost To Date**
5,034.56	173,419.10
Depth Start (mKB)	**Depth End (mKB)**
2,217.00	2,264.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:45	3.75	3.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR 2217m TO 2223m
03:45	04:00	0.25	4.00	7	RIG SERVICE	RIG SERVICE GREASED DRAWORKS,WASHPIPE,DRIVESHAFT CHECKED ALL OILS,F/T ELECTRONIC & MECHANICAL CROWN SAVERS F/T H.C.R 3sec CLOSE OPEN
04:00	04:15	0.25	4.25	20	DIR. WORK	DIRECTIONAL SURVEYS
04:15	06:45	2.50	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR 2223m TO 2228m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE JOB SAFETY MEETING/CREW HANDOVER MEETING
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR 2228m TO 2231m
08:00	11:45	3.75	11.75	2	DRILL ACTUAL	CONT DRILL 311mm HOLE FR-2231m TO 2240m
11:45	12:00	0.25	12.00	20	DIR. WORK	DIRECTIONAL SURVEYS
12:00	16:45	4.75	16.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2240m TO 2250m
16:45	17:00	0.25	17.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER&RESET F/T UPPER PIPE RAMS&LOWER PIPE RAMS 5sec CLOSE OPEN
17:00	17:15	0.25	17.25	20	DIR. WORK	DIRECTIONAL SURVEYS
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2250m TO 2254m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	23:30	4.50	23.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2254m TO 2264m
23:30	23:45	0.25	23.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS,CHECKED ALL OILS,FT CROWN SAVER,FT ANNULAR 33secs CLOSE
23:45	00:00	0.25	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS

2,255.00mKB, 4/18/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,255.00	1210.0	63	19.0	13.400
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
0.400			1.0	9.0	1.0	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		550.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
	1.40	5.00		232.70

BHA #20, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
19	311.0mm, GX-30MDX, 6074879	0.30	1-1-WT-H-E-1.00-NO-TD	520	2.2

Nozzles (mm)	String Length (m)	OD (mm)
15.9/14.3/14.3	2,275.09	307.0

String Components
HUGHES GX-30MDX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,217.00	2,240.00	61.00	29.75	2.1		20	120	17,200			14,0...
Original Hole	2,240.00	2,264.00	85.00	40.50	2.2		22	80	16,400			15,0...

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	
5,600	Yes	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0
BARITE	27.08	168.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	SETTING AND PULLING SLIPS
00:00	Safety Meeting	MOVING MUD NPRODUCT WITH LOADER

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 4/17/2010
Report #: 64.0, DFS: 61.06
Depth Progress: 38.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	9	GOOD	TIGHT

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD	WIPPER TRIP BEFORE LONGING

Operations Summary
REAMED FROM 2070 TO 2178M.

Morning Tour Notes:
REVIEWED JTAS 2-A HOUSEKEEPING,2-C RIG TONG OPERATION,2-D MOUSEHOLE CONNECTIONS WITH DRILL PIPE
CHECKED BRAKE LINKAGE,STABBING VALVE,INSIDE BOP
CHECKED MANIFOLD ALIGNMENT
PIPE IN HOLE=145 ON LOCATION=160 TOTAL=305 CORRECT

Time log comments:
DRILL 311mm HOLE FR-2194m TO 2227m

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:00	4.00	4.00	3	REAMING	REAM & WASH TO 2179m
04:00	05:15	1.25	5.25	2	DRILL ACTUAL	DRILL FROM 2179m TO 2182m
05:15	05:30	0.25	5.50	7	RIG SERVICE	RIG SERVICE,GREASED WASHPIPE,DRAWORKS,CHECKED ALL OILS F/T CROWNSAVER F/T UPPER AND LOWER PIPE RAMS 5sec CLOSE OPEN
05:30	05:45	0.25	5.75	20	DIR. WORK	DIRECTIONAL SURVEYS
05:45	08:00	2.25	8.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2182 TO 2185m
08:00	12:00	4.00	12.00	2	DRILL ACTUAL	CONT DRILL311mm HOLE FR-2185 TO 2194m
12:00	13:00	1.00	13.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2194m TO 2195m
13:00	13:15	0.25	13.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER F/T ANNULAR 33sec CLOSE OPEN
13:15	18:45	5.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2195m TO 2207m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY MEETING/CREW HANDOVER MEETING
19:00	19:45	0.75	19.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2207m TO 2209m
19:45	20:00	0.25	20.00	20	DIR. WORK	DIRECTIONAL SURVEYS F/T ELECTRONIC & MECHANICAL CROWN SAVER
20:00	00:00	4.00	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2209m TO 2217m

<Depth?>mKB, 4/17/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00		1190.0	63	18.0	13.400
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
	1.391	0.0		9.0	0.8	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55	0.000					

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
	-0.90		2.80	225.50

BHA #20, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
19	311.0mm, GX-30MDX, 6074879	0.30	1-1-WT-H-E-1.00-NO-TD	520	2.2

Nozzles (mm)	String Length (m)	OD (mm)
15.9/14.3/14.3	2,275.09	307.0

String Components
HUGHES GX-30MDX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
70,731.32	6,156,502.66
Daily Mud Cost	**Mud Additive Cost To Date**
12,538.36	168,384.54
Depth Start (mKB)	**Depth End (mKB)**
2,179.00	2,217.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,500	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,600	Yes	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
CLAY SYNC	386.36	1.0
BARAFOS	97.10	1.0
CAUSTIC	47.91	2.0
GEL	11.81	40.0
BARITE	27.08	273.0
EZ MUD DP	231.78	1.0
CLAY SYNC	386.36	1.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0
BARITE	27.08	94.0
BARATHIN	82.39	2.0
SAWDUST	6.93	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIGTONG OPERATION
00:00	Safety Meeting	BOP DRILL

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,179.00	2,194.00	15.00	7.50	2.0		20	120	17,500			14,0...
Original Hole	2,194.00	2,217.00	38.00	18.75	2.0		22	120	16,300			15,6...

WellView

Daily Drilling

Report for: 4/16/2010
Report #: 63.0, DFS: 60.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-1	GOOD	TIGHT

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD	DRILL AHEAD

Operations Summary

COMPLETED PRESSURE TESTING BOP'S AND RELATED WELL CONTROL EQUIPMENT.
MADE UP NEW BIT AND POWER DRIVE AND RAN IN HOLE.
REAMED FROM 2080 TO 2170 M.

Morning Tour Notes:
REVIEWED JTAS 6-A SETTING & PULLING SLIPS,2-B CATWALK OPERATION,2-C RIG TONG OPERATION,2-C RIG TONG OPERATION WITH RENTAL TONGS.6-I DOG COLLAR USE,6-6 FLOW CHECKS,
CHECK BRAKE LINKAGE,PRESSURE TEST BOPS,STABBING VALVE,INSIDE BOP,UPPER/LOWER KELLY COCK,INSIDE/OUTSIDE CHOKE VALVE,INSIDE/OUTSIDE KILL VALVE
PRESSURE TEST CHOKE MANIFOLD ON TRIP OUT OF HOLE, 1500 KPA LOW 21000 KPA HIGH 15 MIN EACH

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	15	TEST B.O.P.	PRESSURE TEST INSIDE CHOKE LINE VALVE 1500 LOW 21000 HIGH 15 MIN EACH
00:30	01:00	0.50	1.00	15	TEST B.O.P.	PRESSURE TEST UPPER PIPE RAMS/OUTSIDE KILL LINE VALVE 1500 LOW 21000 HIGH 15 MIN EACH
01:00	01:30	0.50	1.50	15	TEST B.O.P.	PRESSURE TEST ANNULAR 1500 LOW 17000 HIGH 15 MIN EACH
01:30	01:45	0.25	1.75	25		RIG UP PRESSURE TESTER TO RIG FLOOR
01:45	02:45	1.00	2.75	25		RETRIEVE TEST PLUG,SET WEAR BUSHING
02:45	04:00	1.25	4.00	15	TEST B.O.P.	PRESSURE TEST LOWER KELLY COCK TEST FAILED,TEST UPPER KELLY COCK 1500 LOW 21000 HIGH 15min EACH
04:00	04:45	0.75	4.75	15	TEST B.O.P.	PRESSURE TEST LOWER KELLY COCK 1500 KPA LOW 21000 KPA HIGH 15 MIN EACH
04:45	05:30	0.75	5.50	15	TEST B.O.P.	PRESSURE TEST STABBING VALVE 1500 LOW 21000 HIGH 15min EACH
05:30	06:45	1.25	6.75	15	TEST B.O.P.	PRESSURE TEST INSIDE BOP 1500 KPA LOW 21000 KPA HIGH 15 MIN EACH MAKE UP NEW LOWER KELLY COCK
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	07:15	0.25	7.25	21	SAFETY MEETING	PRE-JOB SAFETY / MAKING UP BHA / WITH SCHLUMBERGER
07:15	08:00	0.75	8.00	6	TRIPS	PICK UP BHA / CHANGE OUT POWER DRIVE
08:00	09:15	1.25	9.25	20	DIR. WORK	DIRECTIONAL WORK MAKE UP BIT CHECK FLOAT INSTALL MWD TOOL
09:15	10:45	1.50	10.75	6	TRIPS	TRIP IN HOLE SHALLOW TEST MWD TOOL@217M
10:45	11:00	0.25	11.00	21	SAFETY MEETING	PRE-JOB SAFETY REVIEWED JTA SLIPCUT DRILL LINE
11:00	12:00	1.00	12.00	9	CUT OFF DRILLING LINE	SLIP/CUT DRILLING LINE&RESET COWNSAVER
12:00	17:15	5.25	17.25	6	TRIPS	TRIP IN HOLE W/FLOW CHECKS@603m 1578m PICK UP 44 SINGLES DP FROM CATWALK
17:15	17:30	0.25	17.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LELELS F/T CROWN SAVER F/T ANNULAR 33sec close open
17:30	18:45	1.25	18.75	3	REAMING	REAM AND WASH TO BOTTOM FR-2080m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	00:00	5.00	24.00	3	REAMING	REAM & WASH TO BOTTOM 2170m

2,179.00mKB, 4/16/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,179.00	1180.0	62	17.0	13.900
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
6.000	13.000	8.0	1.0	9.0		4.1
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		550.000				18.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				226.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
81,782.00	6,085,771.34
Daily Mud Cost	**Mud Additive Cost To Date**
	155,846.18
Depth Start (mKB)	**Depth End (mKB)**
2,179.00	2,179.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String: Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
5,400	Yes	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	SLIPCUT DRILL LINE
00:00	Safety Meeting	HOUSEKEEPI...

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 4/15/2010
Report #: 62.0, DFS: 59.06
Depth Progress: 17.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-4	GOOD	Tight

Operations at Report Time	Operations Next Report Period
Pressure testing	Run in hole,drill ahead

Operations Summary

Drilled from 2162 m to 2179 m. Circulated bottoms up and pulled out of hole unable to maintain drop in inc. as per program. Layed out 40 worn drill pipe and 4 HWDP.
Pulled wear bushing and set test plug.Pressure tested BOP's, choke manifold and related well control equipment. Tested with BJ Services. Annular preventor, Pipe rams, bllind rams, inside and outside HCR valve, inside and outside kill line valves,upper and lower kelly cocks and choke line.
All test 1500 kpa low - 21000 kpa high - 15 min each test.

Day Tour Notes:
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE PVT PROBS
JTA REVIEW 2-C RIGTONG OPERATION 6-I DOG COLLAR USE 6-L FLOW CHECKS
PIPE COUNT IN HOLE=140 ON LOCATION=165 TOTAL=305 CORRECT

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:30	3.50	3.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FROM 2162m TO 2168m
03:30	03:45	0.25	3.75	7	RIG SERVICE	RIG SERVICE,GREASED WASHPIPE,DRAWORKS,CHECKED ALL OILS, F/T UPPER AND LOWER PIPE RAMS 5 SEC TO CLOSE
03:45	04:00	0.25	4.00	20	DIR. WORK	DIRECTIONAL SURVEYS
04:00	06:45	2.75	6.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FROM 2168m TO 2172m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2172m TO 2175m
08:00	10:45	2.75	10.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2175 m TO 2179m
10:45	11:45	1.00	11.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
11:45	12:00	0.25	12.00	6	TRIPS	TRIP OUT OF HOLE PRESSURE TEST BOP BIT CHANGE
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER&RESET F/T ANNULAR 33sec close open
12:15	18:45	6.50	18.75	6	TRIPS	CONT TRIP OUT OF HOLE W/FLOW CHECKS@2164m 1947m1078m 236m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	20:15	1.25	20.25	6	TRIPS	CONT TRIP OUT OF HOLE / LAY DOWN 40 DAMAGED DRILL PIPE AND 4 HWDP (HARD BAND WORN OFF AND TOOL JOINTS GROOVED ON SEVERAL)
20:15	20:30	0.25	20.50	21	SAFETY MEETING	SAFETY MEETING ON PICKING UP TONGS FOR 9in.
20:30	20:45	0.25	20.75	25		PICK UP TONGS FOR 9in. COLLARS
20:45	21:00	0.25	21.00	6	TRIPS	CONT TO TRIP OUT OF HOLE
21:00	21:15	0.25	21.25	20	DIR. WORK	DIRECTIONAL WORK LAY MWD TOOL,INSPECT POWER DRIVE
21:15	21:30	0.25	21.50	25		BREAK OFF BIT RACK BACK MONELS & POWER DRIVE
21:30	21:45	0.25	21.75	6	TRIPS	FLOW CHECK/CLEAN FLOOR
21:45	22:00	0.25	22.00	25		PULL WEAR BUSHING
22:00	22:15	0.25	22.25	25		CLEAN TEST PLUG SET TEST PLUG
22:15	23:00	0.75	23.00	25		FILL STACK WITH WATER RIG UP PRESSURE TESTER
23:00	23:30	0.50	23.50	15	TEST B.O.P.	PRESSURE TEST BLIND RAMS,CHOKE LINE,INSIDE KILL LINE VALVE
23:30	00:00	0.50	24.00	15	TEST B.O.P.	PRESSURE TEST HCR

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
77,285.15	6,003,989.34
Daily Mud Cost	**Mud Additive Cost To Date**
6,003.15	155,846.18
Depth Start (mKB)	**Depth End (mKB)**
2,162.00	2,179.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
5,300	Yes	80	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
CAUSTIC	47.91	2.0
CARBONOX	18.67	2.0
GEL	11.81	32.0
BARITE	27.08	197.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HOUSEKEEPI...
00:00	Safety Meeting	PRESSURE TESTING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

2,178.00mKB, 4/15/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,178.00	1180.0	69	20.0	13.300

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
6.000	16.000	7.2	1.0	9.0		4.1

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
50		550.000	120.000			23.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				224.00

BHA #19, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
18	311.0mm, GX-35DX, 6074846	0.30	2-2-FC-H-2-0.50-WT-HR	520	1.9

Nozzles (mm)	String Length (m)	OD (mm)
15.9/14.3/14.3	2,164.76	307.0

String Components

HUGHES GX-35DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Worn heel row 67 hours,640000 k revs

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,162.00	2,179.00	127.00	66.75	1.7		21	160	17,000			13,5...

Daily Drilling

Report for: 4/14/2010
Report #: 61.0, DFS: 58.06
Depth Progress: 46.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-4	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead @ 2173 m.	Drill ahead.Pull out. Test BOP's

Operations Summary
Drilled from 2116 m to 2162 m.

Day Tour Notes:
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT DEGASSER LINE FLARE LINE BOP COMPONENTS F/T CROWN SAVER@1115HR
JTA REVIEW 2-C RIGTONG OPERATION 2-A HOUSEKEEPING 6-A SETTING AND PULLING SLIPS
PIPE COUNT@17OOHR=139 IN HOLE ON LOCATION=166 TOTAL=305 CORRECT

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:30	4.50	4.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2116m - 2126m
04:30	04:45	0.25	4.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION ANNULAR 33 SEC TO CLOSE
04:45	05:00	0.25	5.00	20	DIR. WORK	DIRECTIONAL SURVEY
05:00	06:45	1.75	6.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2126m - 2132m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2132m - 2134m
08:00	10:30	2.50	10.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2134m TO 2140m
10:30	10:45	0.25	10.75	21	SAFETY MEETING	DRILLS/BOP, ETC. W/CREW ONSITE SUPEVISORS DISCUSED WELL CONTROL WHILE DRILLING,
10:45	11:15	0.50	11.25	5	COND MUD & CIRC	CIRCULATE OUT CONNECTION GAS
11:15	11:45	0.50	11.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2140m TO 2141m
11:45	12:00	0.25	12.00	20	DIR. WORK	DIRECTIONAL SURVEYS
12:00	17:00	5.00	17.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2141m TO 2154m
17:00	17:15	0.25	17.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER&RESET F/T H.C.R 3sec OPEN -CLOSE
17:15	00:00	6.75	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-2154m TO 2162

2,158.00mKB, 4/14/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,158.00	1180.0	58	23.0	10.500
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	13.000	8.0	1.0	9.0		4.1
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		500.000	160.000			13.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				214.00

BHA #19, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
18	311.0mm, GX-35DX, 6074846	0.30	2-2-FC-H-2-0.50-WT-HR	520	1.9

Nozzles (mm)	String Length (m)	OD (mm)
15.9/14.3/14.3	2,164.76	307.0

String Components
HUGHES GX-35DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment
Worn heel row 67 hours,640000 k revs

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
89,391.32	5,926,704.19
Daily Mud Cost	**Mud Additive Cost To Date**
4,276.32	149,843.03
Depth Start (mKB)	**Depth End (mKB)**
2,116.00	2,162.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	79	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	79	
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,400	Yes	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0
BARITE	27.08	140.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	MOVING MUD PRODUCT WITH LOADER

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,116.00	2,141.00	89.00	45.00	2.4		22	160	16,100			13,0...
Original Hole	2,141.00	2,162.00	110.00	56.75	1.8		22	160	16,600			12,6...

WellView

Daily Drilling

Report for: 4/13/2010
Report #: 60.0, DFS: 57.06
Depth Progress: 37.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	0	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead @ 2135 m.	Drill ahead

Operations Summary

Drilled from 2071 m to 2116 m.

Day Tour Notes:
F/T ELECTRONIC & MECHANICAL CROWN SAVER @ 15:15 HRS
CHECK MANIFOLD ALIGNMENT,FLARE IGNITER,BRAKE LINKAGE
REVIEW JTAS 31 RELEASING TABLE TORQUE,2-C RIG TONG OPERATION,2-D MOUSEHOLE CONNECTIONS WITH DRILL PIPE,7-1 RIG SERVICE
PIPE COUNT 135 IN HOLE 170 ON RACKS 305 TOTAL

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2071m - 2072m
00:15	00:30	0.25	0.50	7	RIG SERVICE	RIG SERVICE/GREASE BLOCKS/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION ANNULAR 36 SEC TO CLOSE
00:30	00:45	0.25	0.75	20	DIR. WORK	DIRECTIONAL SURVEY
00:45	07:00	6.25	7.00	2	DRILL ACTUAL	CONT TO DRILL 311mmm HOLE FR 2072m - 2085m
07:00	07:15	0.25	7.25	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:15	07:30	0.25	7.50	20	DIR. WORK	DIRECTIONAL SURVEY
07:30	08:00	0.50	8.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2085m - 2086m
08:00	09:45	1.75	9.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FROM 2086mm TO 2090m
09:45	10:45	1.00	10.75	25		CHANGE HEAD ON PUMP#2 #1 CYLINDER
10:45	12:00	1.25	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FROM 2090m TO 2093mm
12:00	15:15	3.25	15.25	2	DRILL ACTUAL	CONT TO DRILL 311mm FROM 2093m TO 2099m
15:15	15:30	0.25	15.50	7	RIG SERVICE	RIG SERVICE GREASED WASHPIPE,DRAWORKS,DRIVE SHAFT,CHECKED ALL OILS F/T UPPER/LOWER PIPE RAMS 6 SEC TO CLOSE
15:30	15:45	0.25	15.75	20	DIR. WORK	DIRECTIONAL SURVEY
15:45	18:45	3.00	18.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FROM 2099m TO 2105m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
19:00	22:30	3.50	22.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2105m - 2113mm
22:30	22:45	0.25	22.75	20	DIR. WORK	DIRECTIONAL SURVEYS
22:45	00:00	1.25	24.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2113m - 2116m

2,113.00mKB, 4/13/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,113.00	1180.0	66	23.0	11.500
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.500	14.000	7.6	1.0	9.0		4.1
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		500.000	160.000			25.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				208.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
67,978.11	5,837,312.87
Daily Mud Cost	**Mud Additive Cost To Date**
2,757.47	145,566.71
Depth Start (mKB)	**Depth End (mKB)**
2,072.00	2,116.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,360	Yes	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,400	Yes	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	1.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0
EZ MUD DP	231.78	2.0
CLAY SYNC	386.36	2.0
GEL	11.81	11.0
BARITE	27.08	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RELEASING TABLE TORQUE
00:00	Safety Meeting	DRIVING HOME ON LONGCHANGE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #19, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
18	311.0mm, GX-35DX, 6074846	0.30	2-2-FC-H-2-0.50-WT-HR	520	1.9

Nozzles (mm)	String Length (m)	OD (mm)
15.9/14.3/14.3	2,164.76	307.0

String Components

HUGHES GX-35DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Worn heel row 67 hours,640000 k revs

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,072.00	2,086.00	41.00	23.75	1.4		23	160	16,600			13,6...
Original Hole	2,093.00	2,116.00	64.00	34.75	2.1		22	160	16,600			14,0...

Daily Drilling

Report for: 4/12/2010
Report #: 59.0, DFS: 56.06
Depth Progress: 15.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
BLOWING SNOW	0	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead @ 2085 m.	Drill ahead

Operations Summary

Wiper trip to 1998 m. Reamed back to bottom.
Drilled from 2056 m to 2071 m.

Day Tour Notes:
F/T CROWN SAVER(MECHANICAL & ELECTRONIC) @ 1100 HRS, F/T UPP ER/LOWER PIPE RAMS 5secs OPEN /CLOSE
CHECKED MANIFOLD ALIGNMENT,CHECKED BRAKE LINKAGE
REVIEWED JTAS 2-A HOUSEKEEPING,2-C RIG TONG OPERATION,2-D MOUSEHOLE CONNECTIONS,
DRILL PIPE COUNT 132 IN HOLE 173 ON SITE 305 TOTAL

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:30	2.50	2.50	6	TRIPS	CONT WIPER TRIP FR 2056m TO 1998m PUMPING OUT SINGLES
02:30	06:45	4.25	6.75	3	REAMING	REAM & CLEAN FR 1998m TO 2042m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HAND OVER
07:00	08:00	1.00	8.00	3	REAMING	CONT TO REAM & CLEAN 2042m TO 2044m
08:00	11:00	3.00	11.00	3	REAMING	CONT TO REAM & CLEAN FR 2044m TO 2057m
11:00	11:15	0.25	11.25	7	RIG SERVICE	RIG SERVICE
11:15	12:00	0.75	12.00	3	REAMING	CONT TO REAM & CLEAN FR 2044m TO 2057m
12:00	14:45	2.75	14.75	3	REAMING	REAM & CLEAN FR 2043 TO 2056
14:45	15:30	0.75	15.50	2	DRILL ACTUAL	DRILL AHEAD FR 2056m TO 2058m
15:30	15:45	0.25	15.75	20	DIR. WORK	DIRECTIONAL SURVEYS DID NOT GET SURVEY
15:45	18:45	3.00	18.75	2	DRILL ACTUAL	DRILL AHEAD FR 2058m - 2062m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDDOVER
19:00	19:15	0.25	19.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
19:15	00:00	4.75	24.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2062m - 2071m

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #19, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
18	311.0mm, GX-35DX, 6074846	0.30	2-2-FC-H-2-0.50-WT-HR	520	1.9

Nozzles (mm)	String Length (m)	OD (mm)
15.9/14.3/14.3	2,164.76	307.0

String Components
HUGHES GX-35DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment
Worn heel row 67 hours,640000 k revs

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,056.00	2,071.00	27.00	13.75	1.9		22	160	17,500			15,0...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
55,431.49	5,769,334.76
Daily Mud Cost	**Mud Additive Cost To Date**
958.21	142,809.24
Depth Start (mKB)	**Depth End (mKB)**
2,056.00	2,071.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	80	
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,800	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	2.0
CAUSTIC	47.91	2.0
PAC R	157.31	2.0
CAL CARB 325	11.97	2.0
CARBONOX	18.67	4.0
EZ MUD DP	231.78	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	HIGH SPEED ROTARY

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 4/11/2010
Report #: 58.0, DFS: 55.06
Depth Progress: 12.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
BLOWING SNOW	0	GOOD	Tight
Operations at Report Time		**Operations Next Report Period**	
Reaming		Ream.Drill ahead	

Operations Summary

Continued to run in hole. Reamed from 1986 m to 2044 m.
Drilled from 2044 m to 2056 m.

Morning Tour Notes:
F/T CROWN SAVER @ 1900 HRS /CHECK BRAKE LINKAGES
REVIEWED JTAS 2-C RIGTONG OPERATIONS 6-H PIPE SPINNER USE 6-F RIH WITH DRILL STRING 6-A SETTING AND PULLING SLIPS 6-4 WORKING ON MONKEY BOARD 6-6 FLOWCHECKS
CHECH ALL BOP AND MANIFOLD VALVE ALIGNMENT/CHECK STABBING AND INSIDE BOP VALVE/CHECK ALL FLOOR EQUIPMENT
DP COUNT - 130 IN HOLE/175 ON RACKS/305 TOTAL ON LOCATIOM
Day Tour Notes:
CHECKED BRAKE LINKAGES,MANIFOLD ALIGNMENT,INSIDE BOP,STABBING VALVE
REVIEWED JTAS 2-A HOUSEKEEPING,2-B CATWALK OPERATION,5-B MIXING CHEMICALS,
2-C RIG TONG OPERATION,FUNCTION UPPER/LOW PIPE RAMS 5secs OPEN/CLOSE
FT CROWN SAVER @ 1430hrs

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:45	6.75	6.75	3	REAMING	REAMING 311mm HOLE FR 1986m TO 2038M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	09:00	2.00	9.00	3	REAMING	CONT REAMING FR 2038m TO 2044m
09:00	09:15	0.25	9.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/ F/T ANNULAR 34 SEC TO CLOSE
09:15	12:00	2.75	12.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
12:00	14:45	2.75	14.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
14:45	15:00	0.25	15.00	20	DIR. WORK	DIRECTIONAL SURVEYS
15:00	18:45	3.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR 2044m TO 2051m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING & CREW HANDOVER MEETING
19:00	21:15	2.25	21.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FROM 2051m TO 2056m
21:15	21:30	0.25	21.50	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
21:30	00:00	2.50	24.00	6	TRIPS	WIPER TRIP FR 2056m TO 1998m PUMPING OUT SINGLES

2,056.00mKB, 4/11/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,056.00	1190.0	61	19.0	11.000
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	15.000	8.0	2.0			
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		500.000	120.000			25.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				210.00

BHA #19, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
18	311.0mm, GX-35DX, 6074846	0.30	2-2-FC-H-2-0.50-WT-HR	520	1.9

Nozzles (mm)	String Length (m)	OD (mm)
15.9/14.3/14.3	2,164.76	307.0

String Components

HUGHES GX-35DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Worn heel row 67 hours,640000 k revs

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
88,102.41	5,713,903.27
Daily Mud Cost	**Mud Additive Cost To Date**
11,395.01	141,851.03
Depth Start (mKB)	**Depth End (mKB)**
2,044.00	2,056.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
5,400	Yes	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
SODA ASH	25.48	2.0
EZ MUD DP	231.78	1.0
BARAZAN	184.89	1.0
LIME	11.36	2.0
CAUSTIC	47.91	2.0
PAC R	157.31	2.0
CARBONOX	18.67	2.0
BARITE	27.08	325.0
D-AIR 3000	827.94	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	LAYING OUT SINGLES

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,044.00	2,056.00	12.00	6.00	2.0		19	120	17,500			13,5...

Daily Drilling

Report for: 4/10/2010
Report #: 57.0, DFS: 54.06
Depth Progress: 9.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	8	GOOD	Tight

Operations at Report Time	Operations Next Report Period
Ream to bottom	Ream.Drill ahead

Operations Summary

Drill ahead from 2035m -2044m . Pulled out of hole for bit change. Changed out tool carrier and jars.. Ran in hole

Morning Tour Notes:
F/T CROWN SAVER @ 21:15/CHECK BRAKE LINKAGES
CHECK ALL MANIFOLD AND BOP VALVE ALIGNMENT/FUNCTION REMOTE CHOKE/FUNCTION FLARE IGNITOR/CHECK STABBING AND INSIDE BOP VALVE/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:30	4.50	4.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2035m - 2044m
04:30	04:45	0.25	4.75	20	DIR. WORK	DIRECTIONAL SURVEYS
04:45	05:30	0.75	5.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
05:30	05:45	0.25	5.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/F/T ANNULAR 34 SEC TO CLOSE
05:45	06:45	1.00	6.75	6	TRIPS	TRIP OUT OF HOLE FR 2044m TO 1889m WITH F/C @ 2027m/1889m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	08:00	1.00	8.00	6	TRIPS	CONT TRIP OUT OF HOLE 1889m WITH F/C @
08:00	11:30	3.50	11.50	6	TRIPS	CONT.TRIP OUT OF HOLE WITH FLOW CHECKS @1000m,290m,
11:30	12:00	0.50	12.00	8	REPAIR RIG	REPLACE COUPLER ON HOLE FILL PUMP
12:00	14:45	2.75	14.75	6	TRIPS	TRIP OUT OFF HOLE FROM 260 TO 0
14:45	15:30	0.75	15.50	25		FLOW CHECK OOH,FUNCTION BLIND RAMS 5secs. OPEN/CLOSE BREAK OFF BIT,MAKE UP NEW BIT ,CLEAN FLOOR
15:30	17:30	2.00	17.50	20	DIR. WORK	DIRECTIONAL WORK LAY OUT MWD TOOL AND TOOL CARRIER, PICK UP NEW TOOL CARRIER AND MWD TOOL
17:30	18:45	1.25	18.75	6	TRIPS	TRIP IN HOLE TO 328m LAYING OUT 2 - 61/2\ DC
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:00	2.00	21.00	6	TRIPS	CONT TRIP IN HOLE FR 328m TO 629m/PULSE TEST MWD/CONT TO R.I.H FR 629m TO 1123m/WITH F/C @ 629m/1123m
21:00	21:30	0.50	21.50	5	COND MUD & CIRC	BREAK CIRC/CIRCULATE BOTTOMS UP/CIRC GAS OUT OF WELLBORE
21:30	22:15	0.75	22.25	6	TRIPS	CONT TRIP IN HOLE FR 1123m TO 1616M F/C @ 1616m
22:15	23:00	0.75	23.00	5	COND MUD & CIRC	BREAK CIRC/CIRCULATE BOTTOMS UP/CIRC GAS OUT OF WELLBORE
23:00	00:00	1.00	24.00	6	TRIPS	CONT TRIP IN HOLE FR 1616m TO 1986m

2,044.00mKB, 4/10/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,044.00	1145.0	55		10.000
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
		8.0	2.0			
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		350.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				40.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
59,601.66	5,625,800.86
Daily Mud Cost	**Mud Additive Cost To Date**
2,868.07	130,456.02
Depth Start (mKB)	**Depth End (mKB)**
2,035.00	2,044.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,900	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,600	Yes	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	2.0
CARBONOX	18.67	4.0
BARITE	27.08	42.0
ZETAG 7692	828.85	1.0
ALKAPAM A1103D	246.36	1.0
CALCIUM NITRATE	53.24	5.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HANDLING TONGS FOR 9in. COLLARS
00:00	Safety Meeting	REAM IN HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #18, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
17	311.0mm, GX-44DX, 6072050	0.30	1-1-NO-A-5-0-NO-HR	448	1.8

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/12.7	2,027.54	307.0

String Components

HUGHES GX-44DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,035.00	2,044.00	112.00	61.75	2.0		23	90	17,300			16,0...

Daily Drilling

Report for: 4/9/2010
Report #: 56.0, DFS: 53.06
Depth Progress: 43.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
FOG	3	GOOD	good

Operations at Report Time	Operations Next Report Period
Pull out of hole	Pull out of hole change bit.

Operations Summary

Drill ahead from 1992m -2035m
Function test accumulator. Start pressure 20500 kpa. close annular, upper pipe rams, lower pipe rams, open hcr. Remaining pressure 10000 kpa.Time to recharge 2 min 2 sec.

Morning Tour Notes:
F/T CROWN SAVER @ 22:45/CHECK BRAKE LINKAGES
CHECK ALL BOP AND MANIFOLD VALVE ALIGNMENT/FUNCTION FLARE IGNITOR/CHECK BOP AND INSIDE BOP VALVE/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
REVIEWED JTA#2-C TONG OPERATIONS/7-1 RIG SERVICE/2-B CATWALK OPERATIONS
DP COUNT @ 6:30 -126 IN HOLE/179 ON RACKS/305 TOTAL ON LOCATION
Day Tour Notes:
F/T CROWN SAVER,CHECK BRAKE LINKAGES F/T ALL ACCUM.(DONE BY RIG MANAGER)
PIPE COUNT 127 IN HOLE 178 ON RACKS 305 TOTAL
REVIEWED JTAS 2-B CATWALK OPERATION,2-C RIG TONG OPERATION,2-D CONNECTIONS WITH DRILL PIPE,7-1 RIG SERVICE,2-F OPERATION OF DRILL PANEL CONTROL,

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:00	6.00	6.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1992m - 2003m
06:00	06:15	0.25	6.25	7	RIG SERVICE	RIG SERVICE/F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE/GREASED ALL MOVING PARTS/CHECK ALL OILS
06:15	06:30	0.25	6.50	20	DIR. WORK	DIRECTIONAL SURVEY
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
06:45	12:00	5.25	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2003m - 2013m
12:00	13:45	1.75	13.75	2	DRILL ACTUAL	CONT. TO DRILL 311mm HOLE FR 2013m TO 2017m
13:45	14:00	0.25	14.00	7	RIG SERVICE	RIG SERVICE,GREASE WASHPIPE,ALL MOVING PARTS,CHECK ALL OILS,F/T ACCUMULATOR,
14:00	14:15	0.25	14.25	10	DEV. SURVEY	DIRECTIONAL SURVEY
14:15	14:30	0.25	14.50	25		ACCUM FUNCTION TEST
14:30	18:45	4.25	18.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 2017m TO 2026m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:15	2.25	21.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2026m - 2030m
21:15	21:45	0.50	21.75	20	DIR. WORK	DIRECTIONAL SURVEYS
21:45	00:00	2.25	24.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 2030m - 2035m

2,029.00mKB, 4/9/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	2,029.00	1150.0	76	20.0	11.500
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	5.000	8.4	2.0	9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		450.000	60.000			33.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
0.00				218.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
63,790.18	5,566,199.20
Daily Mud Cost	**Mud Additive Cost To Date**
1,522.91	127,587.95
Depth Start (mKB)	**Depth End (mKB)**
1,992.00	2,035.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,725	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,700	Yes	39	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC L	157.31	2.0
CARBONOX	18.67	2.0
EZ MUD DP	231.78	1.0
LIME	11.36	1.0
CAUSTIC	47.91	1.0
PAC L	157.31	5.0
CARBONOX	18.67	5.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HOUSEKEEPI... JTA 2-A
00:00	Safety Meeting	RELEASING TABLE TORQUE ON CONNECTIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #18, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
17	311.0mm, GX-44DX, 6072050	0.30	1-1-NO-A-5-0-NO-HR	448	1.8

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/12.7	2,027.54	307.0

String Components

HUGHES GX-44DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,992.00	2,013.00	81.00	46.75	1.9		23	100	17,200			14,5...
Original Hole	2,013.00	2,035.00	103.00	57.25	2.1		23	100	17,300			15,0...

Daily Drilling

Report for: 4/8/2010
Report #: 55.0, DFS: 52.06
Depth Progress: 20.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	5	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead @ 1903 m.	Drill ahead

Operations Summary

Drill ahead from 1952m -1992m

Day Tour Notes:
F/T CROWN SAVER @ 3:15/CHECK BRAKE LINKAGES
CHECK ALL BOP AND MANIFOLD VALVE ALIGNMENT/FUNCTION FLARE IGNITOR/CHECK STABBING AND INSIDE BOP VALVE/CHECK ALL FLOOR EQUIPMENT
SAFETY TOPIC BOP DRILL REVIEWED JTA 14-5
REVIEWED JTAS 2-C RIG TONG OPERATION,2-D MOUSEHOLE CONNECTIONS,2-B CATWALK OPERATION,7-1 RIG SERVICE
DRILL PIPE COUNT 124 IN HOLE 181 ON RACKS 305 IN TOTAL

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:00	6.00	6.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1951m - 1962m
06:00	06:15	0.25	6.25	20	DIR. WORK	DIRECTIONAL SURVEY
06:15	06:45	0.50	6.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1962m - 1963m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1963M - 1965m
08:00	12:00	4.00	12.00	2	DRILL ACTUAL	CONT. TO DRILL 311mm HOLE FR 1965m - 1972m
12:00	14:30	2.50	14.50	2	DRILL ACTUAL	CONT. TO DRILL 311mm HOLE FROM 1972m to 1976m
14:30	14:45	0.25	14.75	7	RIG SERVICE	RIG SERVICE GREASED WASH PIPE,DRAWORKS CHECKED ALL OILS
14:45	15:00	0.25	15.00	21	SAFETY MEETING	BOP DRILL FT HCR/CHOKE/ANNULAR
15:00	15:15	0.25	15.25	20	DIR. WORK	DIRECTIONAL SURVEY
15:15	18:45	3.50	18.75	2	DRILL ACTUAL	CONT.TO DRILL 311mm HOLE FROM 1976m TO 1982m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING & CREW HANDOVER MEETING
19:00	23:00	4.00	23.00	2	DRILL ACTUAL	CONT. TO DRILL 311mm HOLE FR 1982m - 1989m
23:00	23:15	0.25	23.25	20	DIR. WORK	DIRECTIONAL SURVEYS
23:15	00:00	0.75	24.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1989m - 1992m

1,987.00mKB, 4/8/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,987.00	1135.0	61	16.0	8.600
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	20.000	8.4	2.0	9.0	0.9	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		450.000				29.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				208.00

BHA #18, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
17	311.0mm, GX-44DX, 6072050	0.30	1-1-NO-A-5-0-NO-HR	448	1.8

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/12.7	2,027.54	307.0

String Components
HUGHES GX-44DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
51,368.15	5,502,409.02
Daily Mud Cost	**Mud Additive Cost To Date**
1,054.24	126,065.04
Depth Start (mKB)	**Depth End (mKB)**
1,972.00	1,992.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,000	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,800	Yes	38	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	1.0
CAUSTIC	47.91	1.0
PAC L	157.31	2.0
CARBONOX	18.67	2.0
EZ MUD DP	231.78	1.0
LIME	11.36	1.0
CAUSTIC	47.91	1.0
PAC L	157.31	2.0
CARBONOX	18.67	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	HOUSE KEEPING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,972.00	1,992.00	60.00	35.50	1.9		24	90	17,300			14,5...

Daily Drilling

Report for: 4/7/2010
Report #: 54.0, DFS: 51.06
Depth Progress: 36.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	4	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead@1961m	Drill ahead

Operations Summary

Drill ahead from 1908m -1952m -Morning Tour Notes:
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
CHECKED INSIDE B.O.P. AND STABBING VALVE
CHECKED BRAKES AND LINKAGES
F/T CROWN SAVER
DP COUNT @ 500 HRS 120 IN HOLE , 185 ON RACKS , 305 TOTAL
Day Tour Notes:
SAFETY MEETING MWD HAND ON CHANGING SENSOR ON STAND PIPE
CHECKED BOP & MANIFOLD ALIGNMENT
F/T CROWN CROWN SAVER
PIPE COUNT @ 1500 HRS 121 IN HOLE 184 ON RACKS 305 TOTAL
REVIEWED JTAS 2C RIG TONG OPERATIONS,2-B CATWALK OPERATION,2-E MOUSEHOLE CONNECTIONS WITH DRILL PIPE,7-1 RIG SERVICE

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:30	4.50	4.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1912m - 1921m
04:30	04:45	0.25	4.75	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS ; F/T ANNULAR < 33 SEC TO CLOSE >
04:45	05:15	0.50	5.25	20	DIR. WORK	DIRECTIONAL SURVEY
05:15	06:45	1.50	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1921m - 1925m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1925m - 1927m
08:00	08:30	0.50	8.50	25		CHANGE OUT MWD SENSOR
08:30	12:00	3.50	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1927m - 1934
12:00	13:15	1.25	13.25	2	DRILL ACTUAL	DRILL 311mm HOLE FR/1934m to 1935m
13:15	13:30	0.25	13.50	20	DIR. WORK	DIRECTIONAL SURVEY
13:30	18:45	5.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1935m - 1945m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HAND OVER
19:00	20:45	1.75	20.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1945m - 1948m
20:45	21:00	0.25	21.00	7	RIG SERVICE	RIG SERVICE/GREASE ALL MOVING PARTS/CHECK ALL OILS/F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
21:00	21:15	0.25	21.25	20	DIR. WORK	DIRECTIONAL SURVEY
21:15	00:00	2.75	24.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1948m - 1951m

1,933.00mKB, 4/7/2010 20:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	20:30	1,933.00	1140.0	52	20.0	7.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.500	20.000	8.0	1.0	9.5	0.5	5.8
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		450.000	60.000	0.400	1.800	30.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
64,406.93	5,451,040.87
Daily Mud Cost	**Mud Additive Cost To Date**
1,158.11	125,010.80
Depth Start (mKB)	**Depth End (mKB)**
1,912.00	1,948.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,100	Yes	38	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,100	Yes	38	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
LIME	11.36	1.0
CAUSTIC	47.91	1.0
BARATHIN	82.39	2.0
EZ MUD DP	231.78	1.0
PAC L	157.31	2.0
LIME	11.36	2.0
CAUSTIC	47.91	2.0
CARBONOX	18.67	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CHANGING MWD SENSOR ON STANDPIPE
00:00	Safety Meeting	CHANGING OUT HEAD ON PUMP

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #18, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
17	311.0mm, GX-44DX, 6072050	0.30	1-1-NO-A-5-0-NO-HR	448	1.8

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/12.7	2,027.54	307.0

String Components

HUGHES GX-44DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,912.00	1,934.00	26.00	13.75	2.1		17	165	17,700			12,0...
Original Hole	1,934.00	1,948.00	40.00	24.75	1.3		23	100	17,800			14,0...

Daily Drilling

Report for: 4/6/2010
Report #: 53.0, DFS: 50.06
Depth Progress: 4.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	1	GOOD	FAIR

Operations at Report Time	Operations Next Report Period
Drilling ahead	Drill Ahead

Operations Summary

Trip in hole with new BHA, ream 1825m to bottom. Drill ahead. Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T CROWN SAVERS @ 0030 HRS
CHECKED ALL RIG FLOOR EQUIPMENT
TRIP VOLUMES - MEAS. 16.18m^3 , CALC. 13.73m^3 , DIFF. 2.45m^3

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO CHANGE BHA
00:30	01:15	0.75	1.25	6	TRIPS	TRIP OUT OF HOLE W/ 10 MIN FLOW CHECKS @ 1892 & 1754m
01:15	01:30	0.25	1.50	25		BLOW BACK KELLY
01:30	04:30	3.00	4.50	6	TRIPS	TRIP OUT OF HOLE W/ 10 MIN FLOW CHECKS @ 927m & 376m
04:30	04:45	0.25	4.75	21	SAFETY MEETING	SAFETY MEETING , REVIEW JTA AND GO CARD ON LAY DOWN D.CS
04:45	05:30	0.75	5.50	6	TRIPS	LAY DOWN BHA , LAY DOWN 6 JOINTS OF 6.5\ D.CS
05:30	05:45	0.25	5.75	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
05:45	06:30	0.75	6.50	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , LAY DOWN NMDC, MWD TOOL , NMDC & UBHO & FLOAT SUB , LAY DOWN MUD MOTOR ; FLOW CHECK OUT OF HOLE
06:30	06:45	0.25	6.75	7	RIG SERVICE	CLEAN - FLOOR / F/T BLIND RAMS 6 SECS TO CLOSE WHILE O.O.H.
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	10:00	3.00	10.00	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS
10:00	11:00	1.00	11.00	6	TRIPS	TRIP IN HOLE WITH F/C @ 629m
11:00	12:00	1.00	12.00	20	DIR. WORK	DIRECTIONAL WORK PULSE TEST MWD TOOL
12:00	13:30	1.50	13.50	9	CUT OFF DRILLING LINE	SLIP/CUT DRILLING LINE/10.1 m/CHANGE OIL ON FLOORMOTOR / F/T ANNULAR 33 STC, F/T BOTH PIPE RAMS 6 STC
13:30	15:45	2.25	15.75	6	TRIPS	CONT TO TRIP IN HOLE FR 639m TO 1505m/F/C @ 1505 FILL PIPE
15:45	17:00	1.25	17.00	3	REAMING	REAM & CLEAN / FROM 1510m TO 1550m
17:00	18:00	1.00	18.00	6	TRIPS	CONT TO TRIP IN HOLE FROM 1550m TO 1797m
18:00	18:45	0.75	18.75	3	REAMING	REAM & CLEAN / FROM 1797m TO 1825m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HAND OVER MEETING
19:00	20:15	1.25	20.25	6	TRIPS	CONT TRIP IN HOLE REAMING FR 1825m TO BOTTOM
20:15	20:45	0.50	20.75	20	DIR. WORK	DIRECTIONAL WORK , DOWNLINK POWER DRIVE
20:45	00:00	3.25	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1908m - 1912m < PATTERN BIT >

1,912.00mKB, 4/6/2010 20:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	20:30	1,912.00	1155.0	52	17.0	8.600
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.000	10.000	6.8	1.0	8.5	0.8	5.8
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45		450.000	60.000	0.000	2.000	15.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
58,012.76	5,386,633.94
Daily Mud Cost	**Mud Additive Cost To Date**
1,196.63	123,852.69
Depth Start (mKB)	**Depth End (mKB)**
1,908.00	1,912.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975
Jeff Imrie	403 771 9498

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,280	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,100	Yes	37	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARITE	27.08	42.0
LIME	11.36	1.0
CAUSTIC	47.91	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	PICKING UP DIRECTIONAL TOOLS
00:00	Safety Meeting	DRIVING HOME ON LONG CHANGE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #18, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
17	311.0mm, GX-44DX, 6072050	0.30	1-1-NO-A-5-0-NO-HR	448	1.8

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/12.7	2,027.54	307.0

String Components

HUGHES GX-44DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,908.00	1,912.00	4.00	3.25	1.2		15	150	17,700			13,0...

Daily Drilling

Report for: 4/5/2010
Report #: 52.0, DFS: 49.06
Depth Progress: 45.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	4	GOOD	Good

Operations at Report Time	Operations Next Report Period
Make up new BHA	Finish tripping in and Drill ahead.

Operations Summary

Drilled 311mm hole from 1863m - 1908m and trip for new bit and directional tools Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
F/T CROWN SAVERS @ 330 HRS
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T FLARE TANK IGNITER
DP COUNT @ 500 HRS - 110 IN HOLE , 195 ON RACKS , 305 TOTAL
Day Tour Notes:
F/T CROWN SAVER @ 10:15/CHECK BRAKE LINKAGES
CHECK BOP AND MANIFOLD VALVE ALIGNMENT/FUNCTION FLARE IGNITOR/CHECK STABBING AND INSIDE BOP VALVE/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
REVIEWED JTA# 2-B CATWALK OPERATIONS/2-C RIG TONG OPERATIONS/2-D CONNECTIONS WITH DP/2-A HOUSE KEEPING
DP-COUNT/112-SINGLES IN HOLE-/193-SINGLES ON RACKS-/305-TOTAL ON LOCATION

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:15	3.25	3.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1863m - 1868m
03:15	03:30	0.25	3.50	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OILS ; F/T ANNULAR < 33 SEC TO CLOSE >
03:30	03:45	0.25	3.75	20	DIR. WORK	DIRECTIONAL SURVEY
03:45	06:45	3.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1868m - 1875m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	10:15	3.25	10.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1875m - 1882m
10:15	10:30	0.25	10.50	20	DIR. WORK	DIRECTIONAL SURVEY
10:30	12:00	1.50	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1882m -1886m
12:00	16:45	4.75	16.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1886m -1895m
16:45	17:00	0.25	17.00	7	RIG SERVICE	RIG SERVICE/F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE/GREASE ALL MOVING PARTS/CHECK ALL OILS
17:00	17:15	0.25	17.25	20	DIR. WORK	DIRECTIONAL SURVEY
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1895m - 1899m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	23:30	4.50	23.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1899m - 1908m
23:30	23:45	0.25	23.75	20	DIR. WORK	DIRECTIONAL SURVEY
23:45	00:00	0.25	24.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO CHANGE BHA

1,902.00mKB, 4/5/2010 20:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	20:30	1,902.00	1150.0	66	21.0	13.400
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	22.000	7.2	1.0	8.5	0.5	5.8
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		500.000	80.000	0.250	2.000	32.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
56,336.24	5,328,621.18
Daily Mud Cost	**Mud Additive Cost To Date**
1,712.40	122,656.06
Depth Start (mKB)	**Depth End (mKB)**
1,863.00	1,908.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,120	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,280	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	1.0
CAUSTIC	47.91	1.0
BARATROL PLUS	136.16	1.0
PAC R	157.31	1.0
CARBONOX	18.67	2.0
CLAY SYNC	386.36	1.0
EZ MUD DP	231.78	2.0
GEL	11.81	40.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CONNECTIONS
00:00	Safety Meeting	LAY DOWN 6.5\ DRILL COLLARS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #17, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
16	311.0mm, GX-44DX, 6072495	0.30	1-1-WT-A-F-0--HR	596	2.6

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9	1,892.75	244.5

String Components

HUGHES GX-44DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

1 broken insert. 1 bearing failure

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,863.00	1,886.00	185.00	67.50	2.1		20	75	20,400			12,5...
Original Hole	1,886.00	1,908.00	207.00	78.25	2.0		19	75	20,900			13,0...

Daily Drilling

Report for: 4/4/2010
Report #: 51.0, DFS: 48.06
Depth Progress: 64.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
FOG	2	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead at 1873m	Drill Ahead

Operations Summary

Drilled 311mm hole from 1800m to 1863m Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T BOTH CROWN SAVERS @ 0000 HRS
DP COUNT @ 600 HRS - 106 IN HOLE , 199 ON LOCATION , 305 TOTAL
F/T MOTOR KILLS
Day Tour Notes:
F/T CROWN SAVER @ 10:30/CHECK BRAKE LINKAGES
CHECK ALL BOP AND MANIFOLD VALVES ALIGNMENT/CHECK STABBING AND INSIDE BOP VALVE FUNCTION
FLARE IGNITOR/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
REVIEWED JTA# 5-B MIXING CHEMICALS/2-C TONG OPERATIONS/2-F OPERATION OF DRILL PANEL CONTROL
DP COUNT-108 SINGLES IN HOLE/197 SINGLES ON RACKS/305 TOTAL ON LOCATION

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:00	5.00	5.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1799m - 1813m
05:00	05:15	0.25	5.25	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS ; F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE EACH > & F/T HCR VALVE < 2 SEC TO OPEN >
05:15	05:30	0.25	5.50	20	DIR. WORK	DIRECTIONAL SURVEY
05:30	06:45	1.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1813m - 1817m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	10:30	3.50	10.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1817m - 1827m
10:30	10:45	0.25	10.75	20	DIR. WORK	DIRECTIONAL SURVEYS
10:45	12:00	1.25	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1827m -1830m
12:00	13:30	1.50	13.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1830m - 1834m
13:30	13:45	0.25	13.75	7	RIG SERVICE	RIG SERVICE/F/T ANNULAR 34 SEC TO CLOSE/CHECK ALL OILS/GREASED ALL MOVING PARTS
13:45	14:00	0.25	14.00	21	SAFETY MEETING	DRILLS/BOP, ETC./WELL SECURE IN 56 SEC/LAST CREW MEMBER TO FLOOR 45 SEC
14:00	16:15	2.25	16.25	2	DRILL ACTUAL	CONT TO DRILL FR 1834m - 1841m
16:15	16:30	0.25	16.50	20	DIR. WORK	DIRECTIONAL SURVEY
16:30	18:45	2.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1841m - 1848m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	20:00	1.00	20.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE F/ 1848m - 1854m
20:00	20:15	0.25	20.25	20	DIR. WORK	DIRECTIONAL SURVEY
20:15	00:00	3.75	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1854m - 1863m

1,861.00mKB, 4/4/2010 23:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	23:00	1,861.00	1140.0	55	19.0	10.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.000	16.000	7.6	1.0	8.5	0.5	4.8
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		500.000	120.000	0.300	1.800	25.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
50,857.75	5,272,284.94
Daily Mud Cost	**Mud Additive Cost To Date**
7,029.02	120,943.66
Depth Start (mKB)	**Depth End (mKB)**
1,799.00	1,863.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,010	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,100	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
LIME	11.36	1.0
CAUSTIC	47.91	1.0
BARATROL PLUS	136.16	1.0
BARATROL PLUS	136.16	3.0
CAUSTIC	47.91	13.0
EZ MUD DP	231.78	1.0
LIME	11.36	1.0
CAUSTIC	47.91	1.0
BARATROL PLUS	136.16	3.0
GEL	11.81	30.0
GEL	11.81	43.0
BARITE	27.08	28.0
CALCIUM NITRATE	53.24	3.0
CLAY SYNC	386.36	8.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	RIG SERVICE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #17, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
16	311.0mm, GX-44DX, 6072495	0.30	1-1-WT-A-F-0--HR	596	2.6

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9	1,892.75	244.5

String Components

HUGHES GX-44DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

1 broken insert. 1 bearing failure

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,799.00	1,830.00	129.00	45.75	2.8		20	85	20,400			12,8...
Original Hole	1,830.00	1,863.00	162.00	56.50	3.1		17	75	20,300			13,0...

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
FOG	5	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead @1815m	Drill Ahead

Operations Summary

Drilled 311 mm hole from 1741 m to 1800m

Morning Tour Notes:
CHECKED BOTH CROWN SAVERS @ 115 HRS
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
DP COUNT @ 400 HRS - 101 IN HOLE , 204 ON RACKS , 305 TOTAL
CHECK STABBING VALVE AND INSIDE B.O.P.
Day Tour Notes:
F/T CROWN SAVER @ 11:00/CHECK BRAKE LINKAGES
CHECK BOP AND MANIFOLD VALVE ALIGNMENT/CHECK FLOOR EQUIPMENT/CHECK STABBING AND INSIDE BOP VALVE/FUNCTION FLARE IGNITOR
PIPE COUNT @ 1800-104 IN HOLE/201 ON RACKS/305 ON LOCATION
REVIEWED JTA#7-1 RIG SERVICE/2-D CONNECTIONS WITH DP/2-A HOUSE KEEPING

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1741m - 1745m
01:00	01:15	0.25	1.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANULAR < 33 SEC TO CLOSE >
01:15	01:30	0.25	1.50	20	DIR. WORK	DIRECTIONAL SURVEY
01:30	06:45	5.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1745m - 1758m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	07:15	0.25	7.25	20	DIR. WORK	DIRECTIONAL SURVEY
07:15	11:00	3.75	11.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1758m - 1772m
11:00	11:15	0.25	11.25	20	DIR. WORK	DIRECTIONAL SURVEYS
11:15	12:00	0.75	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1772m -1775m
12:00	15:45	3.75	15.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1775m - 1786m
15:45	16:15	0.50	16.25	7	RIG SERVICE	RIG SERVICE/FT UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE/CHECK ALL OILS/GREASE ALL MOVING PARTS/GREASED CROWN AND BLOCK/CHANGE OUT SHAKER SCREENS
16:15	16:30	0.25	16.50	20	DIR. WORK	DIRECTIONAL SURVEYS
16:30	18:45	2.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1786m - 1790m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE F/ 1790m - 1799m
23:45	00:00	0.25	24.00	20	DIR. WORK	DIRECTIONAL SURVEY

1,792.00mKB, 4/3/2010 20:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	20:30	1,792.00	1140.0	64	21.0	10.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.500	15.500	6.0	1.0	8.5	0.5	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		450.000	120.000	0.200	1.800	25.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
86,756.47	5,221,427.19
Daily Mud Cost	**Mud Additive Cost To Date**
1,412.98	113,914.64
Depth Start (mKB)	**Depth End (mKB)**
1,741.00	1,799.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,020	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,200	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
CLAY SYNC	386.36	2.0
BARATROL PLUS	136.16	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	GENERAL MAINTENANCE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #17, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
16	311.0mm, GX-44DX, 6072495	0.30	1-1-WT-A-F-0--HR	596	2.6

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9	1,892.75	244.5

String Components

HUGHES GX-44DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

1 broken insert. 1 bearing failure

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,741.00	1,775.00	74.00	24.00	3.2	2.700	18	80	19,700	91	115	12,5...
Original Hole	1,775.00	1,799.00	98.00	34.75	2.2		18	85	19,400			14,0...

WellView

Daily Drilling

Report for: 4/2/2010
Report #: 49.0, DFS: 46.06
Depth Progress: 40.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	4	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Drilling ahead @1759m	Drill ahead

Operations Summary

Trip in with new bit and drill from 1701m-1741m Accummulator test 21,000Kpa(Annular,Upper and lower Pipe rams, and HCR)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
44,950.80	5,134,670.72
Daily Mud Cost	**Mud Additive Cost To Date**
2,463.57	112,501.66
Depth Start (mKB)	**Depth End (mKB)**
1,701.00	1,741.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:30	3.50	3.50	6	TRIPS	TRIP OUT OF HOLE FOR BIT W/ FLOW CHECKS @ 857m , 361m & 0m < F/T BLIND RAMS WHILE OUT OF HOLE 6 SEC TO CLOSE >
03:30	03:45	0.25	3.75	25		RIG IN 5 TONGS FOR 9\ WORK
03:45	04:00	0.25	4.00	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
04:00	05:00	1.00	5.00	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , PULL MWD TOOL AND BREAK BIT , DRESS NEW BIT AND INSTALL NEW MWD TOOL
05:00	06:00	1.00	6.00	6	TRIPS	TRIP IN HOLE W/ FLOW CHECKS @ 606m
06:00	06:15	0.25	6.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS ; F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE EACH >
06:15	06:30	0.25	6.50	20	DIR. WORK	DIRECTIONAL WORK , SHALLOW HOLE TEST MWD TOOL
06:30	07:00	0.50	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES W/ NALCOR SAFETY HAND
07:00	08:00	1.00	8.00	6	TRIPS	TRIP IN HOLE FR 620m TO 1264m WITH FC @ 1264m
08:00	08:15	0.25	8.25	15	TEST B.O.P.	FUNCTION TEST ACCUMULATOR / START 21000 KPA CLOSE ANNULAR 33 SECS 11700 KPA CLOSE UPPER PIPE RAMS 6 SECS 10700 KPA CLOSE LOWER PIPE RAMS 6 SECS 9700 KPA OPEN HCR 2 SECS 9500 REMAINING / RECHARGE 1 MIN 54 SECS / PRECHARGE 6500 KPA
08:15	09:30	1.25	9.50	6	TRIPS	CONT TRIP IN HOLE FR 1264m TO 1701m WASHING LAST 2 SINGLES TO BOTTOM
09:30	10:45	1.25	10.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR 1701m - 1704m
10:45	11:00	0.25	11.00	20	DIR. WORK	DIRECTIONAL SURVEY
11:00	12:00	1.00	12.00	2	DRILL ACTUAL	CONT TO DRILL 211mm HOLE FR 1704m - 1707m
12:00	15:00	3.00	15.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1707m - 1717m
15:00	15:15	0.25	15.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/F/T ANNULAR 33 SEC TO CLOSE
15:15	15:30	0.25	15.50	20	DIR. WORK	DIRECTIONAL SURVEYS
15:30	18:45	3.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1717m - 1726m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HAND OVER
19:00	20:30	1.50	20.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1726m - 1731m
20:30	20:45	0.25	20.75	20	DIR. WORK	DIRECTIONAL SURVEY
20:45	00:00	3.25	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1731m - 1741m

1,732.00mKB, 4/2/2010 21:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	21:00	1,732.00	1145.0	59	19.0	10.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.000	16.000	6.0	1.0	9.0	0.4	5.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		500.000	60.000	0.300	1.800	24.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Jeff Imrie	403 771 9498
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	0	
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
6,000	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
CARBONOX	18.67	1.0
BARATROL PLUS	136.16	3.0
BARITE	27.08	35.0
LIME	11.36	1.0
CAUSTIC	47.91	1.0
EZ MUD DP	231.78	2.0
BARATROL PLUS	136.16	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING IN HOLE
00:00	Safety Meeting	POWER TOOL OPERATIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #17, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
16	311.0mm, GX-44DX, 6072495	0.30	1-1-WT-A-F-0--HR	596	2.6

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9	1,892.75	244.5

String Components

HUGHES GX-44DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

1 broken insert. 1 bearing failure

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,701.00	1,707.00	6.00	2.25	2.7		19	55	0			0.0
Original Hole	1,707.00	1,741.00	40.00	13.25	3.1		18	55	19,800			12,0...

Daily Drilling

Report for: 4/1/2010
Report #: 48.0, DFS: 45.06
Depth Progress: 57.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	5	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Triping in with new bit	RIH with new bit and drill ahead

Operations Summary
Drill 1640m to 1701m and trip for bit.

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
94,826.80	5,089,719.92
Daily Mud Cost	**Mud Additive Cost To Date**
2,478.36	110,038.09
Depth Start (mKB)	**Depth End (mKB)**
1,641.00	1,701.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:30	1.50	1.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1641m - 1646m
01:30	01:45	0.25	1.75	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS ; F/T UPPER AND LOWER PIPE RAMS < 5 SEC TO CLOSE EACH >
01:45	02:00	0.25	2.00	20	DIR. WORK	DIRECTIONAL SURVEY
02:00	06:30	4.50	6.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1646m - 1660m
06:30	06:45	0.25	6.75	20	DIR. WORK	DIRECTIONAL SURVEY
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	11:00	4.00	11.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1660m - 1674m
11:00	11:15	0.25	11.25	20	DIR. WORK	DIRECTIONAL SURVEY
11:15	12:00	0.75	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1674m - 1677m
12:00	16:00	4.00	16.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1677m - 1687m
16:00	16:15	0.25	16.25	7	RIG SERVICE	RIG SERVICE/FUNCTION ANNULAR 37 SEC TO CLOSE/CHECK ALL OILS/GREASED ALL MOVING PARTS
16:15	16:30	0.25	16.50	20	DIR. WORK	DIRECTIONAL SURVEY
16:30	18:45	2.25	18.75	2	DRILL ACTUAL	CONT TO DRILL FR 1687m - 1694m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HAND OVER
19:00	22:15	3.25	22.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1694m - 1701m
22:15	22:30	0.25	22.50	20	DIR. WORK	DIRECTIONAL SURVEY
22:30	23:00	0.50	23.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO BIT TRIP
23:00	23:15	0.25	23.25	21	SAFETY MEETING	SAFETY MEETING ON LEVEL RIG
23:15	23:30	0.25	23.50	1	RIGUP & TEARDOWN	LEVEL RIG
23:30	00:00	0.50	24.00	6	TRIPS	TRIP OUT OF HOLE TO CHANGE BIT

1,700.00mKB, 4/1/2010 21:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	21:00	1,700.00	1140.0	59	17.0	8.600
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.500	21.000	7.6	1.0	9.0	0.5	5.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		450.000	120.000	0.250	105.000	28.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #16, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
15	311.0mm, S55RDX, 6071993	0.30	2-2-NO-A-E-1-NO-PR	596	2.3

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9	1,684.57	244.5

String Components
HUGHES S55RDX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,800	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,850	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	11.36	1.0
CAUSTIC	47.91	2.0
CALCIUM NITRATE	53.24	3.0
BARATROL PLUS	136.16	3.0
BARITE	27.08	30.0
EZ MUD DP	231.78	2.0
LIME	11.36	2.0
CAUSTIC	47.91	2.0
BARATROL PLUS	136.16	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	DIRECTIONAL ASSEMBLY

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m^3/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,552.00	1,579.00	57.00	31.75	1.3		20	40	18,700			11,0...
Original Hole	1,641.00	1,674.00	122.00	53.25	3.1		20	60	19,000			12,0...
Original Hole	1,677.00	1,701.00	146.00	62.75	2.5		20	60	19,050			11,5...

WellView

Daily Drilling

Report for: 3/31/2010
Report #: 47.0, DFS: 44.06
Depth Progress: 62.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	3	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Drilling ahead @1659m	Drill ahead

Operations Summary
Drill from 1580m-1641m

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
46,822.01	4,994,893.12
Daily Mud Cost	**Mud Additive Cost To Date**
2,387.52	107,559.73
Depth Start (mKB)	**Depth End (mKB)**
1,579.00	1,641.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:15	4.25	4.25	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1579M TO 1591m
04:15	04:30	0.25	4.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER & RESET F/T UPPER PIPE RAMS&LOWER PIOPE RAMS 4sec CLOSE OPEN
04:30	04:45	0.25	4.75	20	DIR. WORK	DIRECTIONAL SURVEYS
04:45	06:45	2.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1591m TO 1595m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	10:15	3.25	10.25	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1595 TO 1605m
10:15	10:30	0.25	10.50	21	SAFETY MEETING	DRILLS/BOP, ETC./WELL SECURE IN 58 SEC/LAST CREW MEMBER ON FLOOR IN 36 SEC/REVIEWED JTA# 14-5 BOP DRILL
10:30	10:45	0.25	10.75	20	DIR. WORK	DIRECTIONAL SURVEY
10:45	12:00	1.25	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1605m - 1609m
12:00	15:00	3.00	15.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1609m - 1619m
15:00	15:15	0.25	15.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/F/T ANNULAR 36 SEC TO CLOSE
15:15	15:30	0.25	15.50	20	DIR. WORK	DIRECTIONAL SURVEY @ 1602.63m
15:30	18:45	3.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1619m - 1630m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HAND OVER
19:00	19:30	0.50	19.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1630m - 1632m
19:30	19:45	0.25	19.75	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL HELD W/ CREW , WELL SECURE IN 92 SEC , LAST MAN ON RIG FLOOR IN 33 SEC
19:45	20:00	0.25	20.00	20	DIR. WORK	DIRECTIONAL SURVEY
20:00	00:00	4.00	24.00	2	DRILL ACTUAL	DRILL 311mnm HOLE F/ 1632m - 1641m

1,635.00mKB, 3/31/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,635.00	1120.0	60	16.0	9.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.500	18.000	7.2	1.0	8.0	0.4	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45		450.000	160.000	0.000	0.800	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #16, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
15	311.0mm, S55RDX, 6071993	0.30	2-2-NO-A-E-1-NO-PR	596	2.3

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9	1,684.57	244.5

String Components
HUGHES S55RDX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,579.00	1,609.00	30.00	10.75	2.8		19	50	18,800			9,00...

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,600	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,780	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	2.0
CARBONOX	18.67	2.0
BARATROL PLUS	136.16	3.0
BARATROL PLUS	136.16	3.0
BARITE	27.08	45.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	B.O.P DRILL
00:00	Safety Meeting	TRAPPED TORQUE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,552.00	1,579.00	57.00	31.75	1.3		20	40	18,700			11,0...
Original Hole	1,609.00	1,641.00	89.00	42.50	3.0		19	60	18,500			10,5...

WellView

Daily Drilling

Report for: 3/30/2010
Report #: 46.0, DFS: 43.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
LIGHT RAIN	2	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Drill Ahead @1595m	Drill Ahead

Operations Summary
Trip in new bit and drill ahead to 1580m

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
90,660.28	4,948,071.11
Daily Mud Cost	**Mud Additive Cost To Date**
1,384.90	105,172.21
Depth Start (mKB)	**Depth End (mKB)**
1,552.00	1,552.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO BIT TRIP
00:15	00:30	0.25	0.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER & RESET F/T UPPER PIPE RAMS&LOWER PIPE RAMS 4sec CLOSE OPEN
00:30	04:30	4.00	4.50	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS @ 1547m 1395m 762m 266m 0m CAL=12.11 MEAS=12.51 DIFF=+.40m3 F/T BLIND RAMS 4sec CLOSE OPEN
04:30	04:45	0.25	4.75	21	SAFETY MEETING	SAFETY MEETING W/CREW DIRECTIONAL & ONSITE SUPERVISOR PRIOR TO DIR WORK
04:45	05:15	0.50	5.25	20	DIR. WORK	DIRECTIONAL WORK LAY OUT MWD TOOL DRAIN MUD MOTOR BREAK OFF BIT
05:15	05:45	0.50	5.75	25		CLEAN RIG FLOOR MAKE UP NEW BIT
05:45	06:45	1.00	6.75	20	DIR. WORK	DIRECTIONAL WORK WAIT ON MWD TOOL
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	08:30	1.50	8.50	6	TRIPS	TRIP IN HOLE W/ FLOW CHECK @ 600m
08:30	08:45	0.25	8.75	21	SAFETY MEETING	SAFETY MEETING ON SLIP AND CUT DRILLING LINE
08:45	09:45	1.00	9.75	9	CUT OFF DRILLING LINE	SLIP & CUT 12.47m OF DRILLING LINE
09:45	10:15	0.50	10.25	20	DIR. WORK	DIRECTIONAL WORK , SHALLOW TEST MWD TOOL
10:15	11:30	1.25	11.50	6	TRIPS	TRIP IN HOLE W/ FLOW CHECK @ 1534m
11:30	12:00	0.50	12.00	3	REAMING	WASH AND REAM TO BOTTOM
12:00	12:15	0.25	12.25	20	DIR. WORK	DIRECTIONAL SURVEY
12:15	16:45	4.50	16.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1552m - 1564m (PATTERN BIT)
16:45	17:00	0.25	17.00	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED OI LEVELS ; F/T ANNULAR < 33 SEC TO CLOSE >
17:00	17:15	0.25	17.25	20	DIR. WORK	DIRECTIONAL SURVEY
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1564m - 1568m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1568m -1579M
23:45	00:00	0.25	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS

1,574.00mKB, 3/30/2010 21:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	21:00	1,574.00	1120.0	55	15.0	8.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	18.000	8.0	1.0	8.0	0.5	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45		450.000	160.000	0.000	0.800	25.000

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,450	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,500	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARATHIN	82.39	2.0
BARITE	27.08	35.0
BARATROL PLUS	136.16	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	SLIP AND CUT
00:00	Safety Meeting	MOVING MUD PRODUCTS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m^3/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 3/29/2010
Report #: 45.0, DFS: 42.06
Depth Progress: 49.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-2	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Make up BHA#16	RIH w/bit #15 and Drill Ahead

Operations Summary
Drill to 1552m and circulate prior to bit trip.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:30	1.50	1.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1503m TO 1509m
01:30	01:45	0.25	1.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER & RESET F/T H.C.R 3sec OPEN CLOSE / F/T LOWER AND UPPER PIPE RAMS 6 SEC OPEN CLOSE
01:45	06:45	5.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1509m TO 1526m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	07:30	0.50	7.50	20	DIR. WORK	DIRECTIONAL SURVEYS
07:30	11:00	3.50	11.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1526m - 1537m
11:00	11:30	0.50	11.50	20	DIR. WORK	DIRECTIONAL SURVEY AND ORIENT TOOL FACE
11:30	12:00	0.50	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1537m - 1538m
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS ; F/T ANNULAR < 33 SEC TO CLOSE >
12:15	18:45	6.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1538m - 1549m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1549m - 1552
23:45	00:00	0.25	24.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE

1,551.00mKB, 3/29/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,551.00	1115.0	66	15.0	9.600
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	24.000	6.8	1.0	8.5	0.5	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		400.000	160.000	0.100	2.000	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #15, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
14	311.0mm, M4249ZPD2T, CW7863	0.36	8-8-WT-A-F-1.00-BT-PR	596	2.8

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9	1,547.62	244.5

String Components
REED M4249ZPD2T, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,503.00	1,538.00	105.00	31.25	3.3		19	40	17,600			11,2...
Original Hole	1,538.00	1,552.00	119.00	42.50	1.2		20	40	18,700			10,0...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
52,194.86	4,857,410.83
Daily Mud Cost	**Mud Additive Cost To Date**
2,906.53	103,787.31
Depth Start (mKB)	**Depth End (mKB)**
1,503.00	1,552.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,960	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,450	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
CALCIUM NITRATE	53.24	3.0
BARATROL PLUS	136.16	3.0
PAC R	157.31	3.0
BARITE	27.08	21.0
BARATROL PLUS	136.16	3.0
CARBONOX	18.67	3.0
BARITE	27.08	29.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CHANGING OUT TONG DIES
00:00	Safety Meeting	GENERAL LOCK OUT PROCEDURES

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 3/28/2010
Report #: 44.0, DFS: 41.06
Depth Progress: 70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-9	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Drill Ahead at 1524m	Drill Ahead

Operations Summary
Drill ahead to 1503m With no problems

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
64,605.86	4,805,215.97
Daily Mud Cost	**Mud Additive Cost To Date**
2,193.87	100,880.78
Depth Start (mKB)	**Depth End (mKB)**
1,433.00	1,503.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	3	REAMING	WASH TO BOTTOM FR-1424m TO 1433m
01:00	01:15	0.25	1.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER & RESET F/T UPPER PIPE RAMS & LOWER PIPE RAMS 4sec CLOSE OPEN
01:15	06:45	5.50	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE PATTERN BIT FR-1433m TO 1447m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	08:30	1.50	8.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1447m - 1455m
08:30	08:45	0.25	8.75	20	DIR. WORK	DIRECTIONAL SURVEY
08:45	12:00	3.25	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1455m - 1464mm
12:00	13:15	1.25	13.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1464mm - 1468m
13:15	13:30	0.25	13.50	20	DIR. WORK	DIRECTIONAL SURVEY
13:30	16:45	3.25	16.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1468m - 1482m
16:45	17:00	0.25	17.00	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED OIL LEVELS ; F/T ANNULAR < 33 SEC TO CLOSE >
17:00	17:15	0.25	17.25	20	DIR. WORK	DIRECTIONAL SURVEY
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1482m - 1486m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	23:30	4.50	23.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1486m - 1503m
23:30	00:00	0.50	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS

1,492.00mKB, 3/28/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,492.00	1120.0	71	17.0	8.600
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.500	15.000	8.0	1.0	9.0	0.5	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		450.000	160.000	0.250		

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #15, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
14	311.0mm, M4249ZPD2T, CW7863	0.36	8-8-WT-A-F-1.00-BT-PR	596	2.8

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9	1,547.62	244.5

String Components
REED M4249ZPD2T, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,433.00	1,464.00	31.00	10.25	3.0		10	40	18,900			10,0...
Original Hole	1,464.00	1,503.00	70.00	20.75	3.7		18	35	19,700			9,50...

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,800	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,825	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
CALCIUM NITRATE	53.24	3.0
EZ MUD DP	231.78	1.0
CLAY SYNC	386.36	1.0
CAUSTIC	47.91	2.0
CALCIUM NITRATE	53.24	3.0
BARATROL PLUS	136.16	3.0
BARITE	27.08	26.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CATWALK OPERATIONS
00:00	Safety Meeting	SAFTEY HARNESS AND LANYARDS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 3/27/2010
Report #: 43.0, DFS: 40.06
Depth Progress: 10.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-6	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Drill ahead at 1447m	Drill ahead

Operations Summary

Drill to 1433m and tripped out of the hole for new bit.

Morning Tour Notes:
VIS INSP BRAKE LINKAGE PINS STABBING VALVE W/KEY INSIDE BOP MANIFOLD VALVE ALIGNMENT
FLARE LINE DEGASSER JTA REVIEW 2-A HOUSE KEEPING 2-B CATWALK OPERATIONS
2-C RIGTONG OPERATIONS
PIPE IN HOLE=78 ON LOCATION=227 TOTAL=305 CORRECT

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:00	5.00	5.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1423m TO 1426m
05:00	05:15	0.25	5.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/T CROWN SAVER & RESET F/T UPPER PIPE RAMS & LOWER PIPE RAMS 4sec CLOSE-OPEN
05:15	06:45	1.50	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1426m TO 1427m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	12:00	5.00	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1427m - 1431m
12:00	13:00	1.00	13.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1431m - 1432m
13:00	13:15	0.25	13.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS ; F/T ANNULAR < 33 SEC TO CLOSE >
13:15	13:30	0.25	13.50	20	DIR. WORK	DIRECTIONAL SURVEY
13:30	14:45	1.25	14.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1432m -1433m
14:45	15:00	0.25	15.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO BIT TRIP
15:00	15:45	0.75	15.75	6	TRIPS	TRIP OUT OF HOLE W/ FLOW CHECKS @ 1428m & 1291m
15:45	16:00	0.25	16.00	25		BLOW BACK KELLY
16:00	18:45	2.75	18.75	6	TRIPS	TRIP OUT OF HOLE W/ FLOW CHECKS @ 714m , 357m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER MEETING
19:00	20:30	1.50	20.50	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@0MCAL=10.66 MEAS=12.40 DIFF=+1.74 F/T BLIND RAMS O.O.H 4sec CLOSE OPEN
20:30	20:45	0.25	20.75	21	SAFETY MEETING	SAFETY MEETING CREW DIRECTIONAL HAND PRIOR TO
20:45	21:30	0.75	21.50	20	DIR. WORK	DIRECTIONAL WORK BREAK BIT DRAIN MUD MOTOR
21:30	23:00	1.50	23.00	6	TRIPS	TRIP IN HOLE W/FLOW CHECKS@381mSHALLOW TEST MWD TOOL@629m
23:00	00:00	1.00	24.00	6	TRIPS	CONT TRIP OUT OF HOLE FLOW CHECK@1424m

1,429.00mKB, 3/27/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,429.00	1120.0	60	18.0	10.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	18.000	7.0	1.0	8.2	0.4	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45		450.000	160.000	0.000	1.000	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
47,636.51	4,740,610.11
Daily Mud Cost	**Mud Additive Cost To Date**
2,039.52	98,686.91
Depth Start (mKB)	**Depth End (mKB)**
1,423.00	1,433.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074
Jeff Imrie	403 771 9498

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
4,600	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,400	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
CALCIUM NITRATE	53.24	3.0
BARATROL PLUS	136.16	3.0
BARATHIN	82.39	1.0
CAUSTIC	47.91	2.0
CALCIUM NITRATE	53.24	3.0
BARATROL PLUS	136.16	3.0
BARITE	27.08	25.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	ICE PLUGS
00:00	Safety Meeting	PIPE SPINNER USE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #14, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
13	311.0mm, HCM608, 7109973		4-5-BT-A-X-0-LT-PR	284	1.8

Nozzles (mm)	String Length (m)	OD (mm)
9.5/9.5/9.5/9.5	1,415.56	244.5

String Components

HUGHES HCM608, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

15 chipped cutters.1 cutter missing.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,423.00	1,431.00	45.00	24.00	0.7		10	40	15,700			9,80...
Original Hole	1,431.00	1,433.00	47.00	26.25	0.9		12	40	17,200			9,90...

Daily Drilling

Report for: 3/26/2010
Report #: 42.0, DFS: 39.06
Depth Progress: 37.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-1	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Drilling ahead at 1427m	Drill ahead

Operations Summary

Drilling with 5% chert While running in hole we wash and ream from 662 to 674m. This is were the wear on the drill pipe is at.

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
68,589.69	4,692,973.60
Daily Mud Cost	**Mud Additive Cost To Date**
568.20	96,647.39
Depth Start (mKB)	**Depth End (mKB)**
1,386.00	1,423.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	15	TEST B.O.P.	TEST BOP ACCUMULATOR FUNCTION TEST START PRESSURE 21,000KPA CLOSE ANNULAR PRESSURE LOSS 9000KPA CLOSE UPPER PIPE RAMS CLOSE LOWER PIPE RAMS OPEN H.C.R,TOTAL PRESSURE LOSE 11.400KPA,PRESSURE LEFT ON ACCUMULATOR AFTER 4 FUNCTION 9,600KPA TIME BUILD.2.02MIN
00:30	01:30	1.00	1.50	15	TEST B.O.P.	TEST BOP MANUAL HCR ALL MANIFOLD VALVES 1500KPA LOW 21000KPA HIGH FOR 10MIN
01:30	01:45	0.25	1.75	21	SAFETY MEETING	PRE-JOB SAFETY PRIOR TO DIRECTIONAL WORK W/CREW & SCHLUMBERGER
01:45	03:45	2.00	3.75	20	DIR. WORK	DIRECTIONAL WORK PICK UP MUD MOTOR SCRIBE INSTALL MWD TOOL
03:45	05:15	1.50	5.25	6	TRIPS	TRIP PICK UP 6.5DC
05:15	05:45	0.50	5.75	6	TRIPS	TRIP IN HOLE W/FLOW CHECKS@620M
05:45	06:00	0.25	6.00	21	SAFETY MEETING	DRILLS/BOP W/CREW DISCUSED TRIPPING PROCEDURES WELL SECURE IN 90sec
06:00	06:45	0.75	6.75	20	DIR. WORK	DIRECTIONAL WORK SHALLOW TEST MWD TOOL
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	09:30	2.50	9.50	6	TRIPS	CONT TRIP IN HOLE W/ FLOW CHECK @ 1370m , WASH LAST TWO SINGLES TO BOTTOM , NO FILL
09:30	11:15	1.75	11.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1386m - 1391m
11:15	11:30	0.25	11.50	20	DIR. WORK	DIRECTIONAL SURVEY
11:30	11:45	0.25	11.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1391m - 1393m
11:45	12:00	0.25	12.00	7	RIG SERVICE	RIG SERVICE , F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE >
12:00	14:30	2.50	14.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1393m - 1404m
14:30	14:45	0.25	14.75	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL HELD W/ CREW , WELL SECURE IN 92 SEC , LAST MAN ON RIG FLOOR IN 38 SEC
14:45	15:00	0.25	15.00	7	RIG SERVICE	RIG SERVICE , GREASE ALL MOVING PARTS INCLUDING CROWN AND BLOCKS , CHECKED ALL OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE > AND HCR VALVE < 2 SEC TO OPEN >
15:00	15:15	0.25	15.25	20	DIR. WORK	DIRECTIONAL SURVEY
15:15	18:30	3.25	18.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1404m - 1418m
18:30	18:45	0.25	18.75	20	DIR. WORK	DIRECTIONAL SURVEY
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1418m - 1423m
23:45	00:00	0.25	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS

1,421.00mKB, 3/26/2010 21:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	21:00	1,421.00	1125.0	68	17.0	11.000
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
5.000	19.000	7.6	1.0	8.2	0.5	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		600.000	160.000	0.000		

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,730	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
5,750	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CALCIUM NITRATE	53.24	3.0
BARATROL PLUS	136.16	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRAPPED TORQUE
00:00	Safety Meeting	TONG OPERATIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #14, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
13	311.0mm, HCM608, 7109973		4-5-BT-A-X-0-LT-PR	284	1.8

Nozzles (mm)	String Length (m)	OD (mm)
9.5/9.5/9.5/9.5	1,415.56	244.5

String Components

HUGHES HCM608, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

15 chipped cutters.1 cutter missing.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,386.00	1,393.00	7.00	2.00	3.5		10	40	20,400			11,8...
Original Hole	1,393.00	1,423.00	37.00	12.50	2.9		10	40	20,500			12,0...

Daily Drilling

Report for: 3/25/2010
Report #: 41.0, DFS: 38.06
Depth Progress: 15.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-2	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Trip in hole with with new BHA	Drilling ahead

Operations Summary

Morning Tour Notes:
DISCUSSED WORKING WITH NEW DRILLER TO RIG,WORKING IN EXTREME WIND CONDITIONS
CHECKED AILIGNMENT OF MANIFOLD, CHECKED BRAKE LINKAGE
CHECKED MECHANICAL & ELECTRIC CROWN SAVER @ 830 HRS
PIPE COUNT 85 IN HOLE 220 ON LOCATION 305 TOTAL
CHECKED MECHANICAL CROWN SAVER @ 1020 HRS
Day Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENTMiscellaneous Drilling Services"TEST B.O.P." "PRESSURE TEST BOPS ; TEST UPPER PIPE RAMS/BLIND RAMS/ KILL LINE VALVES/CHOKE LINE VALVES/STABBING VALVE/INSIDE B.O.P./MANIFOLD VALVES/UPPER AND LOWER KELLY VALVES ALL TO 1500KPA LOW & 21000KPA HIGH FOR 10 MINS , TEST ANNULAR TO 1500KPA LOW & 10500KPA HIGH"

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:30	3.50	3.50	2	DRILL ACTUAL	DRILLED 311mm HOLE FROM 1371m TO 1377m
03:30	03:45	0.25	3.75	7	RIG SERVICE	RIG SERVICE,GREASED WASHPIPE,GREASED DRIVE SHAFT,CHECKED FLUID IN SWIVEL,F/T UPPER,LOWER PIPE RAMS(6 SECS CLOSE/OPEN)
03:45	04:00	0.25	4.00	20	DIR. WORK	DIRECTIONAL SURVEYS
04:00	06:45	2.75	6.75	2	DRILL ACTUAL	DRILLED 311mm HOLE FR 1377m to 1383M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING AND HANDOVER MEETING WITH CREWS
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	DRILLED 311mm HOLE F/ 1383m - 1386m
08:00	08:30	0.50	8.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO CHANGE B.H.A AND PRESSURE TEST
08:30	08:45	0.25	8.75	20	DIR. WORK	DIRECTIONAL SURVEY
08:45	11:45	3.00	11.75	6	TRIPS	TRIP OUT OF HOLE W/ FLOW CHECKS @ 1374m , 1237m & 589m ; LAYDOWN 13 SINGLES
11:45	12:00	0.25	12.00	25		BLOW BACK KELLY
12:00	14:00	2.00	14.00	6	TRIPS	CONT TO TRIP OUT OF HOLE W/ FLOW CHECKS @ 231m ; LAYDOWN 8\ D.CS AND X/OS
14:00	14:15	0.25	14.25	25		RIG IN 5 TONGS
14:15	14:30	0.25	14.50	6	TRIPS	TRIP OUT OF HOLE ; LAYDOWN 9\ D.C.S ; FLOW CHECK @ 0m , F/T BLIND RAMS WHILE OUT OF HOLE < 6 SEC TO CLOSE >
14:30	14:45	0.25	14.75	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
14:45	16:00	1.25	16.00	20	DIR. WORK	DIRECTIONAL WORK ; LAYDOWN POWER DRIVE AND MWD TOOL
16:00	16:30	0.50	16.50	15	TEST B.O.P.	PULL WEAR BUSHING
16:30	16:45	0.25	16.75	15	TEST B.O.P.	MAKE UP TEST PLUG
16:45	17:00	0.25	17.00	21	SAFETY MEETING	SAFETY MEETING W/ BJ ON PRESSURE TESTING
17:00	00:00	7.00	24.00	15	TEST B.O.P.	PRESSURE TEST BOPS ; TEST UPPER PIPE RAMS/BLIND RAMS/ KILL LINE VALVES/CHOKE LINE VALVES/STABBING VALVE/INSIDE B.O.P./MANIFOLD VALVES/UPPER AND LOWER KELLY VALVES ALL TO 1500KPA LOW & 21000KPA HIGH FOR 10 MINS , TEST ANNULAR TO 1500KPA LOW & 10500KPA HIGH

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
57,001.76	4,624,383.91
Daily Mud Cost	**Mud Additive Cost To Date**
1,265.27	96,079.19
Depth Start (mKB)	**Depth End (mKB)**
1,371.00	1,386.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
4,000	Yes	82	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
BARATROL PLUS	136.16	2.0
CALCIUM NITRATE	53.24	3.0
BARITE	27.08	29.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	PRESSURE TESTING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

1,386.00mKB, 3/25/2010 08:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	08:00	1,386.00	1125.0	60	18.0	9.600

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
5.000	14.000	6.0		8.5	0.8	4.7

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
40		500.000	160.000	0.400		

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #13, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
RR12	311.0mm, GX-35DX, 6074869	0.38	2-2-FC-A-E-1.00-NO-BHA	1,040	2.0

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/15.9/14.3/14.3/15.9	1,223.39	244.5

String Components

HUGHES GX-35DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,371.00	1,386.00	92.00	46.25	2.1		13	170	13,700			6,60...

Daily Drilling

Report for: 3/24/2010
Report #: 40.0, DFS: 37.06
Depth Progress: 43.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
vERY HIGHT WINDS	-2	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
Drilling ahead at 1384m	Drilling ahead

Operations Summary

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED MECHANICAL CROWN SAVER @ 515 HRS
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT DRILLING AHEAD WITH NO PROBLEMS wE WILL BE MAKING A BIT CHANGE TODAY WITH A NEW BHA.WE ALLSO WILL BE PRESSURE TESTING THE BOPs

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:30	4.50	4.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1328m - 1336m
04:30	04:45	0.25	4.75	7	RIG SERVICE	RIG SERVICE , GREASE MOVING PARTS AND CHECK OIL LEVELS ; F/T UPPER AND LOWER PIPES < 6 SEC TO CLOSE EACH >
04:45	05:00	0.25	5.00	21	SAFETY MEETING	SAFETY MEETING , REVIEW JTA AND GO CARD ON INSTALLING MONKEY BOARD CAMERA
05:00	05:15	0.25	5.25	25		INSTALL MONKEY BOARD CAMERA
05:15	05:30	0.25	5.50	20	DIR. WORK	DIRECTIONAL SURVEYS
05:30	06:45	1.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1336m - 1340m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER
07:00	12:00	5.00	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1340m - 1350m
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE, GREASED ALL MOVING COMPONENTS, CHECK ALL OIL LEVELS, F/T CROWN SAVER, F/T ANNULAR 33secs CLOSE OPEN
12:15	18:45	6.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR- 1350m TO 1362m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	20:00	1.00	20.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1362m TO 1368m
20:00	20:15	0.25	20.25	20	DIR. WORK	DIRECTIONAL SURVEYS
20:15	00:00	3.75	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1368m TO 1371m

1,365.00mKB, 3/24/2010 20:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	20:00	1,365.00	1130.0	60	20.0	10.500
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	10.000	6.4	1.0	8.5	1.0	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		500.000	120.000	0.200	0.300	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #13, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
RR12	311.0mm, GX-35DX, 6074869	0.38	2-2-FC-A-E-1.00-NO-BHA	1,040	2.0

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/15.9/14.3/14.3/15.9	1,223.39	244.5

String Components

HUGHES GX-35DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,328.00	1,350.00	56.00	27.75	2.0		14	170	13,800			7,30...
Original Hole	1,350.00	1,371.00	77.00	39.00	1.9		13	170	13,000			6,50...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
96,079.27	4,567,382.15
Daily Mud Cost	**Mud Additive Cost To Date**
2,475.65	94,813.92
Depth Start (mKB)	**Depth End (mKB)**
1,328.00	1,371.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Jeff Imrie	403 771 9498
Bill Williams	709 765 1074
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
3,820	Yes	40	
3,780	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	2.0
BARATROL PLUS	136.16	2.0
BARITE	27.08	42.0
CAUSTIC	47.91	1.0
BARATROL PLUS	136.16	2.0
BARITE	27.08	24.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MOUSEHOLE CONNECTIONS
00:00	Safety Meeting	WORKING IN EXTREME WINDS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 3/23/2010
Report #: 39.0, DFS: 36.06
Depth Progress: 34.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-4	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
1341M	DRILLING AHEAD

Operations Summary
DRILLING AHEAD WITH NO PROBLEMS

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
60,068.19	4,471,302.88
Daily Mud Cost	**Mud Additive Cost To Date**
2,102.70	92,338.27
Depth Start (mKB)	**Depth End (mKB)**
1,294.00	1,328.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:45	0.75	0.75	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS
00:45	01:30	0.75	1.50	6	TRIPS	TRIP IN HOLE
01:30	02:00	0.50	2.00	20	DIR. WORK	DIRECTIONAL WORK , TEST TOOLS
02:00	02:15	0.25	2.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE >
02:15	02:45	0.50	2.75	25		CHANGE OIL ON FLOOR MOTOR AND TRANSMISSION
02:45	05:15	2.50	5.25	6	TRIPS	TRIP IN HOLE W/ FLOW CHECK @ 596m & 1285m
05:15	05:30	0.25	5.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE AIR OUT OF HOLE
05:30	06:45	1.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1294m - 1295m
06:45	07:00	0.25	7.00	20	DIR. WORK	DIRECTIONAL SURVEYS
07:00	07:15	0.25	7.25	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:15	12:00	4.75	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1295m - 1305m
12:00	13:30	1.50	13.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR- 1305m TO 1309m
13:30	13:45	0.25	13.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS LEVELS F/TCROWN SAVER&RESET F/T UPPER PIPE&LOWER PIPE RAMS 4sec CLOSE/OPEN
13:45	17:00	3.25	17.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1309m TO 1316m
17:00	17:15	0.25	17.25	20	DIR. WORK	DIRECTIONAL AUTO SURVEY
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1316m TO 1320m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	20:15	1.25	20.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1320m - 1322m
20:15	20:30	0.25	20.50	20	DIR. WORK	DIRECTIONAL SURVEYS
20:30	00:00	3.50	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1322m - 1328m

1,323.00mKB, 3/23/2010 20:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	20:00	1,323.00	1110.0	55	21.0	5.300
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	9.000	6.8		8.3	1.0	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #13, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
RR12	311.0mm, GX-35DX, 6074869	0.38	2-2-FC-A-E-1.00-NO-BHA	1,040	2.0

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/15.9/14.3/14.3/15.9	1,223.39	244.5

String Components
HUGHES GX-35DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,294.00	1,305.00	11.00	6.00	1.8		10	120	13,850			6,50...
Original Hole	1,305.00	1,328.00	34.00	17.00	2.1		13	170	13,750			7,00...

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975
Jeff Imrie	403 771 9498

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,720	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,740	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARITE	27.08	25.0
CALCIUM NITRATE	53.24	1.0
CAUSTIC	47.91	1.0
CARBONOX	18.67	1.0
BARATROL PLUS	136.16	2.0
BARITE	27.08	12.0
GEL	11.81	60.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HOUSEKEEPI...
00:00	Safety Meeting	INSTALL CAMERA @ MONKEY BOARD

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 3/22/2010
Report #: 38.0, DFS: 35.06
Depth Progress: 14.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	-7	GOOD	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD@1295m	DRILL AHEAD

Operations Summary

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
F/T MOTOR KILLS
DP COUNT @ 500 HRS - 77 IN HOLE , 228 ON LOCATION , 305 TOTAL TRIP FOR BIT @1294 NO PROBLEM WITH TIFHT HOLE .THE NEW TONG FOR THE 9 INCH COLLORS WORK VERY GOOD.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS ; F/T UPPER AND LOWER PIPE RAMS < 5 SEC TO CLOSE > ; F/T MOTOR KILLS
00:15	00:30	0.25	0.50	20	DIR. WORK	DIRECTIONAL WORK , DOWNLINK TOOL
00:30	04:30	4.00	4.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1269m - 1277m
04:30	04:45	0.25	4.75	25		CHANGE HEAD IN MUD PUMP #2 SUMP SIDE
04:45	06:30	1.75	6.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1277m - 1281m
06:30	06:45	0.25	6.75	20	DIR. WORK	DIRECTIONAL SURVEY
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1281 - 1283m
08:00	20:00	-12.00	-4.00	IN...		

1,286.00mKB, 3/22/2010 12:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	12:30	1,286.00	1120.0	57	19.0	10.500
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
4.000	8.000	6.0		8.5	0.8	4.7
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #12, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
11	311.0mm, MSi816WBPX, SCB792		0-0-NO-A-X-0-NO-PR	240	2.5

Nozzles (mm)	String Length (m)	OD (mm)
7.9/7.9/9.5/9.5	1,278.13	241.3

String Components

SMITH MSi816WBPX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

No chipped cutters.Cracks in 4 blades

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill To
Original Hole	1,269.00	1,283.00	207.00	84.25	2.1		10	120	13,000			7,80...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
74,156.73	4,411,234.69
Daily Mud Cost	**Mud Additive Cost To Date**
53.24	90,235.57
Depth Start (mKB)	**Depth End (mKB)**
1,269.00	1,283.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String

Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
3,560	Yes	40	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CALCIUM NITRATE	53.24	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	
00:00	Safety Meeting	TRIPPING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 3/21/2010
Report #: 37.0, DFS: 34.06
Depth Progress: 59.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-2	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead @1281m	Drill Ahead

Operations Summary

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
CHECKED MECHANICAL CROWN SAVER @ 130 HRS
DP COUNT @ 500 HRS - 73 IN HOLE , 232 ON RACKS , 305 TOTAL, Drilling ahead no problems

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:00	1.00	1.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1210m - 1213m
01:00	01:15	0.25	1.25	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS ; F/T ANNULAR < 33 SEC TO CLOSE >
01:15	01:45	0.50	1.75	20	DIR. WORK	DIRECTIONAL SURVEY @ 1202m WAS 10.81 DEG , DOWNLINK TOOL
01:45	06:45	5.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1213m - 1224m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	12:00	5.00	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1224m - 1239m
12:00	12:30	0.50	12.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS F/T CROWN SAVER&RESET F/T LOWER PIPE RAMS 4sec C/O
12:30	18:45	6.25	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1239m TO 1258M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1258m - 1269m
23:45	00:00	0.25	24.00	20	DIR. WORK	DIRECTIONAL SURVEY

1,254.00mKB, 3/21/2010 16:40

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	16:40	1,254.00	1125.0	54	14.0	8.900
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	9.000	6.4		8.7	1.5	6.5
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #12, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
11	311.0mm, MSi816WBPX, SCB792		0-0-NO-A-X-0-NO-PR	240	2.5

Nozzles (mm)	String Length (m)	OD (mm)
7.9/7.9/9.5/9.5	1,278.13	241.3

String Components

SMITH MSi816WBPX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

No chipped cutters.Cracks in 4 blades

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,210.00	1,239.00	163.00	66.50	2.6		10	120	12,450			7,60...
Original Hole	1,239.00	1,269.00	193.00	77.50	2.7		10	120	12,800			7,70...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
64,183.60	4,337,077.96
Daily Mud Cost	**Mud Additive Cost To Date**
3,922.11	90,182.33
Depth Start (mKB)	**Depth End (mKB)**
1,210.00	1,269.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String

Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,500	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,560	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CLAY SYNC	386.36	2.0
BARAZAN	184.89	2.0
CALCIUM NITRATE	53.24	3.0
BARATROL PLUS	136.16	10.0
EZ MUD DP	231.78	1.0
CAUSTIC	47.91	1.0
BARITE	27.08	20.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	SPILLS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 3/20/2010
Report #: 36.0, DFS: 33.06
Depth Progress: 53.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-2	GOOD	Good

Operations at Report Time	Operations Next Report Period
Drlling ahead @1224	DRILL AHEAD

Operations Summary

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
CHECKED MECHANICAL CROWN SAVER @ 0030 HRS
DP COUNT @ 600 HRS - 69 IN HOLE , 236 ON RACKS , 305 TOTAL
Day Tour Notes:
VIS INSP BRAKE LINKAGE PINS MANIFOLD VALVE ALIGNMENT FLARE LINE DEGASSER LINE
B.O.P COMPONENTS STABBING VALVE W/KEY INSIDE BOP F/T FLARE IGNITER
JTA REVIEW 2-C RIGTONG OPERATION 2-A HOUSE KEEPING 6-A SETTING&PULLING SLIPS
PIPE IN HOLE@1200HR=70 ON LOCATION=235 TOTAL=305 CORRECT
F/T ELECTRONIC CROWN SAVER @ 1930 HRS DRILL 1157M-1210M

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1157m - 1158m
00:30	00:45	0.25	0.75	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE >
00:45	01:00	0.25	1.00	20	DIR. WORK	DIRECTIONAL SURVEY @ 1147m WAS 8.62 DEG
01:00	06:45	5.75	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1158m - 1171m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	07:15	0.25	7.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1171m - 1172m
07:15	07:45	0.50	7.75	20	DIR. WORK	DIRECTIONAL WORK DOWNLINK POWER DRIVE
07:45	12:00	4.25	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1172m TO 1180m
12:00	14:30	2.50	14.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1180m TO 1185m
14:30	14:45	0.25	14.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS F/T CROWN SAVER&RESET F/T UPPER PIPE RAMS 4SEC T/C
14:45	18:45	4.00	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1185m TO 1197m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	19:15	0.25	19.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1197m - 1199m
19:15	20:15	1.00	20.25	25		WORK ON MUD PUMP , CHANGE HEADS
20:15	20:30	0.25	20.50	20	DIR. WORK	DIRECTIONAL SURVEY @ 1188m WAS 9.68 DEG
20:30	20:45	0.25	20.75	20	DIR. WORK	DIRECTIONAL WORK , DOWNLINK TOOL
20:45	00:00	3.25	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1199m - 1210m

1,198.00mKB, 3/20/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,198.00	1120.0	48	12.0	8.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	8.000	6.2		8.5	1.2	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		500.000	80.000			

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
56,711.49	4,272,894.36
Daily Mud Cost	**Mud Additive Cost To Date**
	86,260.22
Depth Start (mKB)	**Depth End (mKB)**
1,157.00	1,210.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,480	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,500	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	SETTING & PULLING SLIPS
00:00	Safety Meeting	SHUT-IN PROCEDURES

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #12, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
11	311.0mm, MSi816WBPX, SCB792		0-0-NO-A-X-0-NO-PR	240	2.5

Nozzles (mm)	String Length (m)	OD (mm)
7.9/7.9/9.5/9.5	1,278.13	241.3

String Components

SMITH MSi816WBPX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

No chipped cutters.Cracks in 4 blades

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,157.00	1,180.00	104.00	45.50	2.1		10	120	12,700			7,60...
Original Hole	1,180.00	1,210.00	134.00	55.50	3.0		10	120	12,400			7,60...

Daily Drilling

Report for: 3/19/2010
Report #: 35.0, DFS: 32.06
Depth Progress: 48.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-1	GOOD	good

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD AT 1172m	DRILL AHEAD

Operations Summary

DRILLED FROM 1109 M TO 1157 M.

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
STABBING VALVE STORED IN OPEN POSITION W/ KEY
F/T FLARE TANK IGNITER
F/T MECHANICAL CROWN SAVER @ 400 HRS

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:00	4.00	4.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1109m - 1117m
04:00	04:15	0.25	4.25	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS ; F/T UPPER AND LOWER PIPE RAMS < 6 SEC TO CLOSE EACH >
04:15	04:45	0.50	4.75	20	DIR. WORK	DIRECTIONAL SURVEY / DIDNT GET SURVEY
04:45	06:45	2.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1117m - 1121m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	12:00	5.00	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1121m TO 1130m
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS F/T CROWN SAVER&RESET F/T H.C.R 3sec O/C
12:15	18:45	6.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1130m TO 1145m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1145m - 1157m

1,144.00mKB, 3/19/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,144.00	1140.0	52	14.0	8.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	7.000	6.2	1.0			
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		500.000			8.750	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				147.00

BHA #12, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
11	311.0mm, MSi816WBPX, SCB792		0-0-NO-A-X-0-NO-PR	240	2.5

Nozzles (mm)	String Length (m)	OD (mm)
7.9/7.9/9.5/9.5	1,278.13	241.3

String Components
SMITH MSi816WBPX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment
No chipped cutters.Cracks in 4 blades

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,109.00	1,130.00	54.00	23.25	1.9		9	110	11,600			8,00...
Original Hole	1,130.00	1,157.00	81.00	34.75	2.3		10	120	12,700			7,50...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
77,600.74	4,216,182.87
Daily Mud Cost	**Mud Additive Cost To Date**
2,460.40	86,260.22
Depth Start (mKB)	**Depth End (mKB)**
1,109.00	1,157.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,400	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,490	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
CALCIUM NITRATE	53.24	2.0
CAUSTIC	47.91	3.0
MAGMA FIBRE FINE	147.77	5.0
BARAZAN	184.89	3.0
PAC R	157.31	3.0
CALCIUM NITRATE	53.24	4.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DRIFTING CASING
00:00	Safety Meeting	KICK WARNING SIGNS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 3/18/2010
Report #: 34.0, DFS: 31.06
Depth Progress: 33.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-1	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD AT 1121M	DRILL AHEAD

Operations Summary

CONTINUED TO PULL OUT OF HOLE. LAYED OUT POWER DRIVE. MADE UP PDC BIT, NEW POWER DRIVE AND RAN IN HOLE TO 596 M. SLIPPED AND CUT DRILL LINE.
RAN IN HOLE AND DRILLED FROM 1076 M TO 1109 M.

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
F/T BOTH CROWN SAVERS @ 0030 HRS
TRIP VOLUMES - MEAS. 7.40m^3 , CALC. 7.01m^3 , DIFF. 0.39m^3

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:00	3.00	3.00	6	TRIPS	TRIP OUT OF HOLE TO CHANGE BIT W/ 10 MIN FLOW CHECKS @ 590m , 232m & OUT OF HOLE ; F/T BLIND RAMS WHILE OUT OF HOLE
03:00	03:15	0.25	3.25	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
03:15	06:00	2.75	6.00	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , LAYDOWN TOOL CARRIER / MWD TOOL AND POWER DRIVE ; PICK UP NEW POWER DRIVE / TOOL CARRIER AND INSTALL NEW MWD TOOL
06:00	06:45	0.75	6.75	6	TRIPS	TRIP IN HOLE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	07:15	0.25	7.25	6	TRIPS	TRIP IN HOLE W/ FLOW CHECK @ 225m
07:15	07:45	0.50	7.75	20	DIR. WORK	DIRECTIONAL WORK , TEST POWER DRIVE
07:45	08:00	0.25	8.00	6	TRIPS	TRIP IN HOLE W/FLOW CHECK@594m
08:00	08:15	0.25	8.25	21	SAFETY MEETING	JSA (JOB SAFETY ANALYSIS)PRIOR TO SLIP CUT DRILL
08:15	09:15	1.00	9.25	9	CUT OFF DRILLING LINE	SLIP/CUT DRILLING LINE 10.8m RESET CROWN SAVER
09:15	09:30	0.25	9.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS F/T UPPER PIPE RAMS 4sec t/c
09:30	10:00	0.50	10.00	6	TRIPS	CONT TRIP IN HOLE W/FLOW CHECK@1058m
10:00	10:30	0.50	10.50	20	DIR. WORK	DIRECTIONAL WORK DOWNLOAD POWER DRIVE
10:30	12:00	1.50	12.00	2	DRILL ACTUAL	DRILL 311mm PATTERN BIT FR-1076m TO 1079m
12:00	15:15	3.25	15.25	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1079m TO 1089m
15:15	15:30	0.25	15.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS F/T CROWN SAVER&RESET F/T ANNULAR 33sec CLOSE-OPEN
15:30	16:00	0.50	16.00	20	DIR. WORK	DIRECTIONAL SURVEYS&DOWNLINK POWER DRIVE
16:00	18:45	2.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1089m TO 1097m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER MEETING
19:00	21:15	2.25	21.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1097m - 1103m
21:15	21:30	0.25	21.50	20	DIR. WORK	DIRECTIONAL SURVEY @ 1093m WAS 9.13 DEG
21:30	00:00	2.50	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 1103m - 1109m

1,096.00mKB, 3/18/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,096.00	1130.0	50	13.0	7.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	6.000	6.8	1.0	8.75		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45		450.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				132.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
61,030.81	4,138,582.13
Daily Mud Cost	**Mud Additive Cost To Date**
4,394.81	83,799.82
Depth Start (mKB)	**Depth End (mKB)**
1,076.00	1,109.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String: Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,380	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CALCIUM NITRATE	53.24	2.0
BARITE	27.08	132.0
EZ MUD DP	231.78	2.0
CALCIUM NITRATE	53.24	2.0
CAUSTIC	47.91	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	SLIP AND CUT DRILL LINE
00:00	Safety Meeting	LOADER OPERATIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #12, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
11	311.0mm, MSi816WBPX, SCB792		0-0-NO-A-X-0-NO-PR	240	2.5

Nozzles (mm)	String Length (m)	OD (mm)
7.9/7.9/9.5/9.5	1,278.13	241.3

String Components

SMITH MSi816WBPX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

No chipped cutters.Cracks in 4 blades

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,076.00	1,079.00	3.00	1.50	2.0		10	120	0			4,50...
Original Hole	1,079.00	1,109.00	33.00	12.25	2.8		10	120	11,500			7,36...

Daily Drilling

Report for: 3/17/2010
Report #: 33.0, DFS: 30.06
Depth Progress: 40.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-1	FAIR	TIGHT

Operations at Report Time	Operations Next Report Period
RUN IN HOLE	RUN IN HOLE,DRILL AHEAD

Operations Summary

RAN IN HOLE AND DRILLED FROM 1036 TO 1076 M
RAISED MUD DENSITY TO 1120 kg/m, VISCOSITY TO 55.
CIRCULATED AND CONDITION MUD. PULLED OUT OF HOLE FOR BIT CHANGE TO PDC.
HOLE TIGHT FROM 1050 M TO 900 M.

Morning Tour Notes:
F/T CROWN SAVER @ 22:00/CHECK BRAKE LINKAGES
CHECK ALL BOP AND MANIFOLD VALVES/CHECK STABBING VALVE AND INSIDE BOP VALVE/FUNCTION FLARE IGNITOR/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
PIPE COUNT @ 5:00/60 SINGLES IN HOLE/245 SINGLES ON RACKS/305 SINGLES ON LOCATION
REVIEWED JTA#6-7 PIPE SPINNER USE/6-A SETTING AND PULLING SLIPS6-E RIH WITH DRILL STRING

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	6	TRIPS	CONT TRIP IN HOLE/CONT REAMING FROM 1030m TO 1036m
00:30	06:15	5.75	6.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1036m - 1048m
06:15	06:30	0.25	6.50	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION LOWER AND UPPER PIPE RAMS 6 SEC TO CLOSE
06:30	06:45	0.25	6.75	20	DIR. WORK	DIRECTIONAL SURVEY @
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HAND OVER MEETING
07:00	12:00	5.00	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1048m - 1061m
12:00	12:30	0.50	12.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1061m TO 1062m
12:30	12:45	0.25	12.75	21	SAFETY MEETING	DRILLS/BOP, ETC. W/CREW ONSITE SUPERVISORS DISCUSIED WELL CONTROL PROCEDURES WHILE DRILLING WELL SECURE IN 190sec
12:45	13:00	0.25	13.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS F/T CROWN SAVER F/T H.C.R 3sec open-close
13:00	14:30	1.50	14.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
14:30	18:45	4.25	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1062m TO 1071m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	21:45	2.75	21.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1071m TO 1076m
21:45	22:00	0.25	22.00	21	SAFETY MEETING	B.O.P. DRILL HELD W/ CREW ; DISCUSSED WELL CONTROL PROCEDURES WHILE DRILLING
22:00	22:45	0.75	22.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTTOMS UP PRIOR TO P.O.O.H.
22:45	00:00	1.25	24.00	6	TRIPS	TRIP OUT OF HOLE TO CHANGE BIT WITH 10 MIN FLOW CHECKS @ 1058m & 893m

1,078.00mKB, 3/17/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,078.00	1120.0	57	15.0	9.600
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	6.000	6.2	1.0	9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45		450.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				125.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
140,904.49	4,077,551.32
Daily Mud Cost	**Mud Additive Cost To Date**
13,193.49	79,405.01
Depth Start (mKB)	**Depth End (mKB)**
1,036.00	1,076.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	90	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	0	
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
2,470	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CALCIUM NITRATE	53.24	1.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
BARAZAN	184.89	2.0
PEBBLED LIME10	30.00	10.0
BARATROL PLUS	136.16	30.0
CARBONOX	18.67	1.0
CALCIUM NITRATE	53.24	2.0
CLAY SYNC	386.36	2.0
CAUSTIC	47.91	3.0
PAC R	157.31	3.0
BARAZAN	184.89	6.0
GEL	11.81	106.0
BARITE	27.08	159.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	DIR. WORK

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #11, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
10	311.0mm, GX-35DX, 6074869	0.38	-------	520	2.2

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/15.9	1,059.18	241.3

String Components

HUGHES GX-35DX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,036.00	1,061.00	25.00	10.75	2.3		14	140	5,350			5,80...
Original Hole	1,061.00	1,076.00	40.00	18.25	2.0		12	140	11,400			5,50...

Daily Drilling

Report for: 3/16/2010
Report #: 32.0, DFS: 29.06
Depth Progress: 6.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-5	FAIR	TIGHT

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD @ 1049	DRILL AHEAD

Operations Summary

CONTROLED DRILLED FROM 1030 M TO 1036 M DUE TO 5% CHERT AND PYRITE CONTENT. CIRCULATED AND PULLED OUT OF HOLE. 30 -40 OVERPULL. PUMPED OUT OF HOLE LAYING OUT SINGLES TO 610 M. LAYED OUT STRING STABILIZER,DOWNLOADED MWD TOOLS,MADE UP INSERT TRICONE BIT AND RAN IN HOLE TO 1021 M. REAM TO BOTTOM. 8 M FILL ON BOTTOM.

Morning Tour Notes:
CHECK CROWN SAVER/CHECK BRAKE LINKAGES
CHECK ALL B.O.P AND MANIFOLD VALVES/FUNCTION FLARE IGNITOR/CHECK STABBING VALVE AND INSIDE B.O.P VALVE/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
RECIEWED JTA#2-A HOUSE KEEPING/2-F OPERATION OF DRILL CONTROL PANEL
PIPE COUNT @ 5:00/59 SINGLES IN HOLE/246 SINGLES ON RACKS/305 SINGLES ON LOCATION
Day Tour Notes:
VISUALLY INSPECT STABBING VALVE WITH KEY,INSIDE BOP,MANIFOLD ALIGNMENT,BRAKE LINKAGE,REVIEWED JTAS 6-A SETTING AND PULLING SLIPS,6-E PULLOUT OF HOLE WITH DRILL STRING,6-G HANDLE BOTTOM HOLE EQUIPMENT,6-I DOG COLLAR USE
TRIP RECORD 5.33 CALC. 5.49 MEASURED.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:45	6.75	6.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1030M - 1036m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HAND OVER MEETING
07:00	07:15	0.25	7.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 1036m -1036.72m
07:15	07:30	0.25	7.50	7	RIG SERVICE	RIG SERVICE/F/T ANNULAR 32 SEC TO CLOSE GREASED ALL MOVING PARTS/CHECK ALL OILS
07:30	07:45	0.25	7.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE DOWNLINK TOOL
07:45	08:00	0.25	8.00	20	DIR. WORK	DIRECTIONAL SURVEYS
08:00	08:15	0.25	8.25	5	COND MUD & CIRC	CONT CONDITION MUD & CIRCULATE PRIOR TO BIT TRIP
08:15	08:30	0.25	8.50	25		PUMP PILL,FLOW CHECK @ 1020m
08:30	08:45	0.25	8.75	21	SAFETY MEETING	SAFETY MEETING W/CREW DIRHAND ONSITE SUPERVISORS PRIOR TO PULLING TIGHT HOLE 105dan
08:45	12:00	3.25	12.00	25		TIGHT HOLE @1011,PICK UP KELLY,PUMP OUT SINGLES FROM 1020m TO 836m
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS F/T LOWER PIPE RAMS 4sec T/C
12:15	14:15	2.00	14.25	3	REAMING	CONTINUE TO PUMP OUT OF HOLE FR836M PULLED FREE@674m RACK BACK KELLY CONTINUE TRIP
14:15	17:00	2.75	17.00	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@ 590m254m LAYED OUT 1DP BOTTOM OF TOOL JT WAS WORN OFF
17:00	17:15	0.25	17.25	25		SAFETY MEETING WITH ONSITE SUPERVISORS,MWD.HAND,DIR.HAND PRIOR TO LAYING OUT MWD. TOOLS DIR. TOOLS
17:15	18:30	1.25	18.50	6	TRIPS	LAY OUT DIR. TOOLS,MWD. TOOLS,RACK BACK 2 STANDS 8in. COLLARS,1 STAND 9in.COLLARS,BREAK OF BIT,FUNCTION BLIND RAMS WHILE OUT OF HOLE(4sec.open/close)
18:30	18:45	0.25	18.75	25		WASH RIG FLOOR PRIOR TO PICKING UP NEW B.H.A
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	19:45	0.75	19.75	20	DIR. WORK	DIRECTIONAL WORK/SET UP AND PICK UP MWD TOOL
19:45	21:15	1.50	21.25	6	TRIPS	TRIP IN HOLE WITH F/C @ 236m/621m/PULSE TEST MWD TOOL @ 236M
21:15	21:30	0.25	21.50	25		ACCUMULATOR CHECK
21:30	00:00	2.50	24.00	6	TRIPS	CONT TRIP IN HOLE FR 621m/REAM FROM 1021m TO 1030m

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
77,675.93	3,936,646.83
Daily Mud Cost	**Mud Additive Cost To Date**
951.93	66,211.52
Depth Start (mKB)	**Depth End (mKB)**
1,030.00	1,036.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
2,400	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	Yes	36	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CALCIUM NITRATE	53.24	2.0
BARAZAN	184.89	2.0
CELLOPHANE	54.09	5.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	PULLING TIGHT HOLEf
00:00	Safety Meeting	DRIVING HOME ON LONG CHANGE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

1,036.00mKB, 3/16/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,036.00	1060.0	52	12.0	7.700

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
3.000	6.000	7.0	1.0	9.5		

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
45		400.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				127.00

BHA #10, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
9	311.0mm, HCD506Z, 7011078	0.38	2-2-CC-H-X-2.00-CC-PR	333	6.1

Nozzles (mm)	String Length (m)	OD (mm)
10.3/10.3/10.3/10.3	1,018.11	241.3

String Components

HUGHES HCD506Z, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,030.00	1,036.00	268.00	44.00	0.9		4	120	10,100			6,20...

Daily Drilling

Report for: 3/15/2010
Report #: 31.0, DFS: 28.06
Depth Progress: 262.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-1	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
Circ. bottoms up and POOH	Drilling ahead

Operations Summary

CONTINUED TO RUN IN HOLE WITH PDC BIT AND POWER DRIVE. WASHED TO BOTTOM AND DRILLED 311 MM HOLE FROM 899 M TO 1030 M
CONTROLED DRILLED FROM 1026 M TO 1030 M DUE TO 5% CHERT AND PYRITE CONTENT.

Morning Tour Notes:
F/T/CROWN SAVER @ 19:30/CHECK BRAKE LINKAGES
CHECK ALL MANIFOLD AND BOP VALVES/CHECK STABBING VALVE AND INSIDE BOP/FUNCTION FLARE IGNITOR/INSPECTION OF FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
PIPE COUNT @ 5:00/51 SINGLES IN HOLE/254 SINGLES ON RACKS/305 SINGLES TOTAL ON LOCATION
REVIEWED JTA#6-E RIH WITH DRILL STRING/20-1 HANDLING DIRECTIONAL TOOLS/20-2 LAYING DOWN MWD TOOL/6-7 PIPE SPINNER USE/6-A SETTING AND PULLING SLIPS

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	21	SAFETY MEETING	SAFETY MEETING/TRIPPING IN HOLE
00:15	02:00	1.75	2.00	6	TRIPS	CONT TRIP IN HOLE WITH F/C @ 596m/PICKING UP 10 SINGLES WASHING LAST 2 SINGLES TO BOTTOM/
02:00	02:30	0.50	2.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR 899m - 900m/PATTERN BIT
02:30	03:00	0.50	3.00	20	DIR. WORK	DIRECTIONAL SURVEY AND DOWNLINK POWER DRIVE @ 889.67m
03:00	05:00	2.00	5.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 900m - 913m
05:00	05:15	0.25	5.25	7	RIG SERVICE	RIG SERVICE/F/T ANNULAR 33 SEC TO CLOSE/GREASED ALL MOVING PARTS/CHECK ALL OILS/GREASED BLOCKS
05:15	05:45	0.50	5.75	20	DIR. WORK	DIRECTIONAL SURVEYS @ 903.66m/917.42m
05:45	06:45	1.00	6.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 913m - 927m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HAND OVER MEETING
07:00	11:15	4.25	11.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 927m -977m
11:15	12:00	0.75	12.00	20	DIR. WORK	DIRECTIONAL SURVEYS ACCUMULATED&DOWNLINK POWER DRIVE
12:00	13:45	1.75	13.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-977m TO 996m
13:45	14:00	0.25	14.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS F/T UPPER PIPE RAM 4sec T/C F/T CROWN SAVER&RESET
14:00	18:45	4.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-996m TO 1027m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	19:45	0.75	19.75	20	DIR. WORK	DIRECTIONAL SURVEYS @ 972.06M/985.55M/999.80M/1013.24M
19:45	00:00	4.25	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-1027m TO 1030m

1,025.00mKB, 3/15/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	1,025.00	1070.0	48	11.0	6.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.500	3.500	8.0	1.0	8.75		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
55		400.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				124.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
84,195.58	3,858,970.90
Daily Mud Cost	**Mud Additive Cost To Date**
3,059.58	65,259.59
Depth Start (mKB)	**Depth End (mKB)**
899.00	1,030.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
2,670	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
2,396	Yes	36	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
CARBONOX	18.67	3.0
CALCIUM NITRATE	53.24	5.0
PAC R	157.31	5.0
BARASEAL MEDIUM	38.07	5.0
SAWDUST	6.93	75.0
GEL	11.81	101.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CAUSTIC
00:00	Safety Meeting	HIGH SPEED ROTARY

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #10, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
9	311.0mm, HCD506Z, 7011078	0.38	2-2-CC-H-X-2.00-CC-PR	333	6.1

Nozzles (mm)	String Length (m)	OD (mm)
10.3/10.3/10.3/10.3	1,018.11	241.3

String Components

HUGHES HCD506Z, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	899.00	977.00	78.00	7.75	10.1	2.700	9	120	8,100	63		9,20...
Original Hole	899.00	977.00	156.00	15.50	10.1		9	120	8,100			9,20...
Original Hole	977.00	1,030.00	209.00	26.25	4.9	2.700	7	120	10,100	63		7,70...
Original Hole	977.00	1,030.00	262.00	37.00	4.9		7	120	10,100			7,70...

Daily Drilling

Report for: 3/14/2010
Report #: 30.0, DFS: 27.06
Depth Progress: 20.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-1	FAIR	Good

Operations at Report Time	Operations Next Report Period
Drilling @930m	Drilling ahead

Operations Summary

Morning Tour Notes:
F/T MECHANICAL CROWN SAVER @ 21:15/CHECK BRAKE LINKAGES
CHECK ALL MANIFOLD AND BOP VALVES/CHECK STABBING VALVE AND INSIDE BOP VALVE/FUNCTION FLARE IGNITOR/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
PIPE COUNT @ 5:00/38 SINGLES IN HOLE/267 SINGLES ON RACKS/305 SINGLES TOTAL ON LOCATION
REVIEWED JTA# 1-1 DRIVING TO AND FROM LOCATION/2-C TONG OPERATION/2-D CONNECTIONS WITH DRILL PIPE
Day Tour Notes:
DRILLER CHECKED BRAKE LINKAGES,
FT FLARE STACK IGNITER,CHECK MANIFOLD ALIGNMENT,FT MANUEL CROWN SAVER
REVIEWED JTAS 1-1 DRIVING TO AND FROM WORK,2-C RIG TONG OPERATION,6-7 PIPE SPINNER USE, 6-4 WORKING ON MONKEY BOARD.POOH DUE TO HIGHT TORQUE.CHANGE OUT DRILLING ASSEMBLE.IAY DOWN ALL 6 1/2 IN. DRILL COLLORS AND MUD MOTOR AND PICK UP 8 IN. DC AND POWER DRIVE WITH PDC BITAND RIH.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:00	2.00	2.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 876m - 882m
02:00	02:15	0.25	2.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/F/T
02:15	02:30	0.25	2.50	20	DIR. WORK	DIRECTIONAL SURVEY
02:30	05:45	3.25	5.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 882m - 894m
05:45	06:00	0.25	6.00	21	SAFETY MEETING	CREW HAND OVER MEETING
06:00	08:30	2.50	8.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 894m - 899M
08:30	09:00	0.50	9.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO BIT TRIP
09:00	09:15	0.25	9.25	6	TRIPS	PUMP PILL BLOW KELLY
09:15	11:00	1.75	11.00	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@892M 741M
11:00	11:15	0.25	11.25	25		WAIT ON INSTRUCTIONS(LAY OUT 6.5in. COLLARS PICK UP ROTARY STEERABLE
11:15	11:30	0.25	11.50	21	SAFETY MEETING	REVIEWED JTA ON LAYING OUT 6.5in. DRILL COLLARS
11:30	13:45	2.25	13.75	6	TRIPS	TRIP OUT OF HOLE WITH FLOW CHECKS@449m 34m 0M MEAS=8.37 CALC=8.67 DIFF=+.30 F/T BLIND RAMS 4SEC T/C
13:45	14:00	0.25	14.00	21	SAFETY MEETING	SAFETY MEETING WITH MWD HANDS DIRECTIONAL HANDS ON SITE SUPERVISORS PRIOR TO LAYING OUT DIRECTIONAL TOOLS AND MWD TOOL
14:00	16:00	2.00	16.00	6	TRIPS	LAY DOWN DIRECTIONAL TOOLS,MWD TOOLS.DRAIN MUD MOTOR,BREAK OF BIT STAB,UBH SUB MUD MOTOR
16:00	16:15	0.25	16.25	21	SAFETY MEETING	PRE-JOB SAFETY W/DIR HAND PRIOR TO PICKING UP POWER DRIVE
16:15	16:30	0.25	16.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS
16:30	17:45	1.25	17.75	20	DIR. WORK	DIRECTIONAL WORK,PICK UP POWER DRIVE,FLOAT SUB,UBHO SUB,NMDC,CROSSOVER TO PICK UP KELLY,
17:45	18:00	0.25	18.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOPVER
18:00	18:15	0.25	18.25	21	SAFETY MEETING	SAFETY MEETING/WITH DIRECTIONAL HANDS
18:15	22:00	3.75	22.00	20	DIR. WORK	DIRECTIONAL WORK/LAY OUT 9\ TO TEST TOOL/WAIT ON ORDERS FOR DIRECTIONAL/CONT TO TEST TOOL/PICK UP TOOLS
22:00	23:00	1.00	23.00	6	TRIPS	TRIP IN HOLE WITH F/C @ 239m/TESTING MWD AND POWER DRIVE TOOL/CONT T.I.H

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
67,403.31	3,774,775.32
Daily Mud Cost	**Mud Additive Cost To Date**
2,543.31	62,200.01
Depth Start (mKB)	**Depth End (mKB)**
876.00	896.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
4,050	Yes	40	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CALCIUM NITRATE	53.24	1.0
CAUSTIC	47.91	1.0
BARAZAN	184.89	9.0
CALCIUM NITRATE	53.24	1.0
CAUSTIC	47.91	1.0
BARITE	27.08	25.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HOUSEKEEPI...
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

899.00mKB, 3/14/2010 08:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	08:00	899.00	1050.0	46		5.300

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
		0.0		9.0	0.4	

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
35	0.000	500.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
	5.00	5.00		115.10

BHA #9, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
8	311.0mm, GX-35DX, 6072503	0.33	1-1-NO-A-4-311.00-NO-HR	1,008	3.2

Nozzles (mm)	String Length (m)	OD (mm)
22.0/20.0/20.0	892.86	244.0

String Components

HUGHES GX-35DX, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	876.00	896.00	182.54	57.75	2.6		14	30	12,500			6,00...

Daily Drilling

Report for: 3/13/2010
Report #: 29.0, DFS: 26.06
Depth Progress: 69.54

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-9	FAIR	Good

Operations at Report Time	Operations Next Report Period
Drilling at 895m	Drilling ahead

Operations Summary

Morning Tour Notes:
F/T MECHANICAL CROWN SAVER @ 22:00/CHECK BRAKE LINKAGES
CHECK ALL MANIFOLD AND B.O.P VALVES/FUNCTION FLARE IGNITOR/CHECK ALL FLOOR EQUIPMENT/CHECK STABBING VALVE AND INSIDE B.O.P VALVE/VISUALLY INSPECT DERRICK
REVIEWED JTA#2-B CATWALK OPERATIONS/6-A SETTING AND PULLING SLIPS/2-F OPERATION OF DRILL PANEL CONTROL/2-C TONG OPERATIONS
PIPE COUNT @ 5:00/35 SINGLES IN HOLE/270 SINGLES ON RACKS/305 TOTAL ON LOCATION
Day Tour Notes:
REVIEWED JTAS MOUSEHOLE CONNECTIONS 2-D,HOUSEKEEPING 2-A,RIG SERVICE 7-1
VIS INSP BRAKE LINKAGE PINS STABBING VALVE W/KEY INSIDE BOP MANIFOLD VALVE ALIGNMENT
F/T CROWN SAVER@16.15HR WE SLID 13.18% out of the 68.3m for the day of drilling.Drilling ahead with no problems.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:45	1.75	1.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 807m - 813m
01:45	02:00	0.25	2.00	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION LOWER PIPE RAMS 4 SEC TO CLOSE
02:00	02:15	0.25	2.25	20	DIR. WORK	DIRECTIONAL SURVEY
02:15	06:30	4.25	6.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 813m - 827m
06:30	06:45	0.25	6.75	20	DIR. WORK	DIRECTIONAL SURVEY
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HAND OVER MEETING
07:00	11:00	4.00	11.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 827m -840m
11:00	11:15	0.25	11.25	20	DIR. WORK	DIRECTIONAL SURVEYS
11:15	12:00	0.75	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 840m - 844m
12:00	14:15	2.25	14.25	2	DRILL ACTUAL	DRILL 311mm HOLE FR 844m T0 850m
14:15	14:30	0.25	14.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE UP BOTTOM HOLE SAMPLE
14:30	16:15	1.75	16.25	2	DRILL ACTUAL	DRILL 311mm FR 850m TO 854m
16:15	16:30	0.25	16.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS,CHECK ALL OILS,F/T MOTOR KILLS,FUNCTION HCR 3sec open/close
16:30	18:45	2.25	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR 854m to 861m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	21:30	2.50	21.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR-861m TO 868m
21:30	21:45	0.25	21.75	20	DIR. WORK	DIRECTIONAL SURVEY
21:45	00:00	2.25	24.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 868m - 876m

858.00mKB, 3/13/2010 18:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	18:00	858.00	1050.0	51		5.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
-0.667		0.0		8.75	0.2	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40	0.700	600.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
0.00	-0.46	0.00	0.00	110.10

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
50,393.89	3,707,372.01
Daily Mud Cost	**Mud Additive Cost To Date**
7,630.89	59,656.70
Depth Start (mKB)	**Depth End (mKB)**
807.00	876.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
4,050	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
4,050	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC L	157.31	1.0
CARBONOX	18.67	1.0
BARATROL PLUS	136.16	25.0
CALCIUM NITRATE	53.24	1.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
CARBONOX	18.67	1.0
BARAZAN	184.89	2.0
BARATROL PLUS	136.16	25.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MOUSEHOLE CONNECTIONS
00:00	Safety Meeting	DRIVING TO AND FROM WORK

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #9, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
8	311.0mm, GX-35DX, 6072503	0.33	1-1-NO-A-4-311.00-NO-HR	1,008	3.2

Nozzles (mm)	String Length (m)	OD (mm)
22.0/20.0/20.0	892.86	244.0

String Components

HUGHES GX-35DX, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	807.00	844.54	130.54	39.00	3.5		14	30	13,600			5,60...
Original Hole	844.00	876.00	162.54	50.00	2.9		14	30	13,000			6,20...

Daily Drilling

Report for: 3/12/2010
Report #: 28.0, DFS: 25.06
Depth Progress: 62.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
SNOW	-12	FAIR	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead at 828m	Drilling ahead

Operations Summary

Morning Tour Notes:
F/T CROWN SAVER @ 20:00/CHECK BRAKE LINKAGES
CHECK ALL B.O.P AND MANIFOLD VALVES/FUNCTION FLARE IGNITOR/CHECK STABBING VALVE AND INSIDE BOP/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
PIPE COUNT @ 5:00/28 SINGLES IN HOLE/277 SINGLES ON RACKS/305 SINGLES ON LOCATION
REVIEWED JTA #2-D CONNECTIONS WITH DRILL PIPE/2-A HOUSE KEEPING/7-1 RIG SERVICE Drilling ahead with no problems

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OIL/F/T ANNULAR 32 SEC TO CLOSE
00:15	00:45	0.50	0.75	8	REPAIR RIG	DOWNTIME - HOISTING/LIFTING/UPPER KELLYCOCK LOOSENED OFF/LAYED OUT SINGLES RETORQUE UPPER KELLYCOCK
00:45	03:45	3.00	3.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 731m - 745m
03:45	04:00	0.25	4.00	20	DIR. WORK	DIRECTIONAL SURVEYS
04:00	06:45	2.75	6.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 745m - 754m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HAND OVER MEETING
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 754m -758m
08:00	11:45	3.75	11.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 758m-769m
11:45	12:00	0.25	12.00	20	DIR. WORK	DIRECTIONAL SURVEYS
12:00	13:00	1.00	13.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-769m TO 772m
13:00	13:15	0.25	13.25	7	RIG SERVICE	RIG SERVICE GREASE CROWN,CHECK OILS,GREASE ALL MOVING COMPONENTS,FUNCTION CROWN SAVER,FUNCTION UPPER PIPE RAMS 4sec CLOSE/OPEN
13:15	18:45	5.50	18.75	2	DRILL ACTUAL	DRILL 311mm FR-772m TO 793m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	22:00	3.00	22.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-793m TO 800m
22:00	22:30	0.50	22.50	20	DIR. WORK	DIRECTIONAL SURVEYS
22:30	00:00	1.50	24.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 800m - 807m

789.00mKB, 3/12/2010 18:50

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	18:50	789.00	1060.0	44		5.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
1.000		0.0		9.25	0.3	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45	0.500	500.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
15.00	-2.20	0.00		110.20

BHA #9, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
8	311.0mm, GX-35DX, 6072503	0.33	1-1-NO-A-4-311.00-NO-HR	1,008	3.2

Nozzles (mm)	String Length (m)	OD (mm)
22.0/20.0/20.0	892.86	244.0

String Components

HUGHES GX-35DX, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
45,272.38	3,656,978.12
Daily Mud Cost	**Mud Additive Cost To Date**
2,509.38	52,025.81
Depth Start (mKB)	**Depth End (mKB)**
731.00	807.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
33	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,317	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CARBONOX	18.67	1.0
CAUSTIC	47.91	2.0
PAC R	157.31	2.0
CLAY SYNC	386.36	1.0
CAUSTIC	47.91	1.0
PAC R	157.31	1.0
BARAZAN	184.89	2.0
CARBONOX	18.67	3.0
GEL	11.81	90.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	TABLE TORQUE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	731.00	758.00	58.00	17.25	2.6		14	30	13,500			5,40...
Original Hole	772.00	807.00	93.00	28.25	3.2		14	35	13,400			6,50...

Daily Drilling

Report for: 3/11/2010
Report #: 27.0, DFS: 24.06
Depth Progress: 45.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-3	FAIR	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead at 755m	Drilling ahead

Operations Summary

Morning Tour Notes:
F/T MECHANICAL CROWN SAVER @ 19:30/CHECK BRAKE LINKAGES
CHECK MANIFOLD AND BOP VALVES/CHECK STABBING VALVE AND INSIDE BOP/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK/
PIPE COUNT @ 5:00/281 ON RACKS/24 IN HOLE/305 TOTAL ON LOCATION
REVIEWED JTA# 5-B MIXING CHEMICALS/JTA 7-1 RIG SERVICE/JTA 2-D CONNECTIONS WITH DRILL PIPE/JTA 2-C TONG OPERATIONS,
Day Tour Notes:
INSPECT BRAKE LINKAGE,PINS, F/T CROWN SAVER@1200HR MANIFOLD VALVE ALIGEMENT
JTA REVIEW 2-B CATWALK OPERATIONS 6-7 PIPE SPINNER USE 6-A SETTING AND PULLING SLIPS 6-E POOH WITH DRILL STRING 6-9 PREPARE FLOOR TO TRIP 2-C RIG TONGS OPERATIONS 6-I DOG COLLAR USE 6-4 WORKING ON MONKEY BOARD Drilled from 685 to 700m.Trip for bit no problems. Drilled from 700m to 731m

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:00	3.00	3.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 685m - 690m
03:00	03:15	0.25	3.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/F/T LOWER PIPE RAMS 4 SEC TO CLOSE
03:15	03:30	0.25	3.50	20	DIR. WORK	DIRECTIONAL SURVEYS
03:30	06:45	3.25	6.75	2	DRILL ACTUAL	CONT TO DRILL 311mm FR 690m - 697m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HAND OVER MEETING
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR - 697m - 698m
08:00	09:15	1.25	9.25	2	DRILL ACTUAL	DRILL 311mm HOLE FR-698m TO 700M
09:15	09:30	0.25	9.50	20	DIR. WORK	DIRECTIONAL SURVEYS
09:30	10:00	0.50	10.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO P.O.O.H
10:00	10:15	0.25	10.25	25		PUMP PILL BLOW KELLY
10:15	12:00	1.75	12.00	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@686M-549M-274M
12:00	13:00	1.00	13.00	6	TRIPS	CONT TRIP OUT OF HOLE W/FLOW CHECKS@O.O.H MEAS=7.58 CALC=7.96 DIFF=+.38 F/T BLIND RAMS 4SEC CLOSE,OPEN
13:00	13:15	0.25	13.25	21	SAFETY MEETING	PRE-JOB SAFETY PRIOR TO HANDLING DIR TOOLS W/CREW ONSITE SUPIVIORS& O.H.S
13:15	13:45	0.50	13.75	20	DIR. WORK	DIRECTIONAL WORK,CHANGE OUT MWD.TOOL,DRAIN MOTOR,CHANGE BIT
13:45	14:30	0.75	14.50	6	TRIPS	TRIP IN HOLE SHALLOW TEST M.W.D TOOL
14:30	16:00	1.50	16.00	6	TRIPS	CONT TRIP IN HOLE
16:00	17:00	1.00	17.00	2	DRILL ACTUAL	DRILL PATTERN BIT FR-700m TO 704m
17:00	17:15	0.25	17.25	20	DIR. WORK	DIRECTIONAL SURVEY
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FR-704m TO 710m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	20:30	1.50	20.50	2	DRILL ACTUAL	DRILL 311mm HOLE FR-710m TO 717m
20:30	20:45	0.25	20.75	20	DIR. WORK	DIRECTIONAL SURVEY
20:45	23:30	2.75	23.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 717m - 731m
23:30	23:45	0.25	23.75	20	DIR. WORK	DIRECTIONAL SURVEY
23:45	00:00	0.25	24.00	7	RIG SERVICE	RIG SERVICE/F/T UPPER PIPE RAMS 4 SEC TO CLOSE/GREASED ALL MOVING PARTS/CHECK ALL OILS

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
63,445.75	3,611,705.74
Daily Mud Cost	**Mud Additive Cost To Date**
1,319.75	49,516.43
Depth Start (mKB)	**Depth End (mKB)**
685.00	731.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,700	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
4,220	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CALCIUM NITRATE	53.24	1.0
CAUSTIC	47.91	1.0
BARITE	27.08	45.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TUGGER USE
00:00	Safety Meeting	CONNECTIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

700.00mKB, 3/11/2010 08:20

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	08:20	700.00	1045.0	45		
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
			0.0	9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
		-2.90	3.00	100.40

BHA #9, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
8	311.0mm, GX-35DX, 6072503	0.33	1-1-NO-A-4-311.00-NO-HR	1,008	3.2

Nozzles (mm)	String Length (m)	OD (mm)
22.0/20.0/20.0	892.86	244.0

String Components

HUGHES GX-35DX, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	700.00	731.00	31.00	6.75	4.6		14	30	13,200			4,00...

Daily Drilling

Report for: 3/10/2010
Report #: 26.0, DFS: 23.06
Depth Progress: 22.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
SNOW	-1	FAIR	Good

Operations at Report Time	Operations Next Report Period
Drilling Depth 693m	Drilling ahead

Operations Summary

Morning Tour Notes:
CHECKED MECHANICAL CROWN SAVER @ 0020 HRS
CHECKED BRAKES AND LINKAGES
TRIP VOLUMES - MEAS. 7.81m^3 , CALC. 7.47m^3 , DIFF. +0.34m^3
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
Day Tour Notes:
FUNCTIONED CROWN SAVER @ 0800 HRS ,CHECK MANIFOLD VALVE ALIGNEMENT
FUNCTIONED FLARE STACK IGNITER,STABBING VALVE W/KEY,INSIDE BOP,
JTAS REVIEWED TRIPPING 6F ,BOP DRILL 7H (SURVEWHEN THE PRESSUETESTCASINGTO 15000 KPa (80%BOF RATED BURST FOR SURFACE CASING) FOR 15 MINUTES,HELD GOOD 200 KPa DROP IN iPRESSURE WHICH IS WELL INSIDE THE 5 % we are allowd) POH to to slow ROP and hight torque to check bit.The bit was like new but the mud motor failed after only 20 Hrs. Change out mud motor trip back in hloe with sane bit and drilled ahead.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO P.O.O.H. DUE TO MOTOR FAILURE
00:15	00:45	0.50	0.75	6	TRIPS	TRIP OUT OF HOLE DUE TO MOTOR FAILURE W/ FLOW CHECKS @ 659m & 577m
00:45	01:00	0.25	1.00	25		BLOW OUT KELLY
01:00	02:15	1.25	2.25	6	TRIPS	TRIP OUT OF HOLE TO CHANGE BIT W/ FLOW CHECKS @ 385m & O.O.H. ; F/T BLIND RAMS O.O.H. <6 STC>
02:15	02:30	0.25	2.50	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
02:30	05:30	3.00	5.50	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , PULL MWD TOOL , LAYDOWN MUD MOTOR AND PICK UP NEW ONE
05:30	06:00	0.50	6.00	6	TRIPS	TRIP IN HOLE
06:00	06:15	0.25	6.25	20	DIR. WORK	DIRECTIONAL WORK , SHALLOW TEST MWD TOOL
06:15	06:45	0.50	6.75	6	TRIPS	TRIP IN HOLE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER
07:00	08:00	1.00	8.00	9	CUT OFF DRILLING LINE	CUT OFF DRILL LINE
08:00	09:15	1.25	9.25	6	TRIPS	TRIP IN HOLE
09:15	09:45	0.50	9.75	3	REAMING	WASH TO B.T.M FR-649m TO 663m
09:45	10:00	0.25	10.00	21	SAFETY MEETING	DRILLS/BOP, ETC.W/CREW ONSITE SUPERVISORS REVIEWED TRIPPING PROCEDURES,TONG OPERATION,PIPE SPINNER OPERATION
10:00	12:00	2.00	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-663m to 667m
12:00	18:30	6.50	18.50	2	DRILL ACTUAL	DRILL 311.00mm HOLE FR-667m TO 676m
18:30	18:45	0.25	18.75	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASED MOVEING COMPONENTS CHECKED ALL OILS F/T LOWER PIPE RAM 4SEC C/O
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	19:15	0.25	19.25	20	DIR. WORK	DIRECTIONAL SURVEY
19:15	00:00	4.75	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE FR-676m - 685m

677.00mKB, 3/10/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	677.00	1045.0	44	10.0	5.500
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
1.429		0.0		8.7	0.3	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
35	0.600		600.000			

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
			3.00	106.10

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
60,354.47	3,548,259.99
Daily Mud Cost	**Mud Additive Cost To Date**
2,887.47	48,196.68
Depth Start (mKB)	**Depth End (mKB)**
663.00	685.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String
Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
4,100	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
4,100	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
GEL	11.81	25.0
PAC L	157.31	1.0
CAUSTIC	47.91	1.0
CLAY SYNC	386.36	2.0
BARAZAN	184.89	4.0
CARBONOX	18.67	7.0
GEL	11.81	63.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	MIXING CHEMICALS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #8, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
7	311.0mm, XR+, 8362		5-7-WT-A-E-311.00-NO-HR	722	2.3

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9/12.7	686.98	244.0

String Components

SMITH XR+, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	663.00	667.00	66.00	23.25	1.6		16	25	12,300			
Original Hole	667.00	685.00	84.00	34.50	1.6		16	25	12,300			4,00...

Daily Drilling

Report for: 3/9/2010
Report #: 25.0, DFS: 22.06
Depth Progress: 61.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
SNOW	-3	FAIR	

Operations at Report Time	Operations Next Report Period
Tripping in hole with new motor	Drill ahead

Operations Summary

Morning Tour Notes:
CHECKED MECHANICAL CROWN SAVER @ 0030 HRS
CHECKED BRAKES AND LINKAGES
Day Tour Notes:
F/T CROWN SAVER @ /CHECK BRAKE LINKAGES
BOP DRILL/CHECK ALL MANIFOLD VALVES AND BOP VALVES TO MAKE SURE EVERYTHING WAS LINED UP SHOULD A KICK OCCUR/CHECK INSIDE BOP AND STABBING VALVE/CHECK ALL FLOOR EQUIPMENT/REVIEWED JTA# 14-5 BOP DRILL/2-D CONNECTIONS WITH DRILL PIPE/7-1 RIG SERVICE/2-A HOUSE KEEPING Drill 5m of new hold perform formation interity test up to 18 KPa.Drilled ahead from 605 to 663 m ROP slowed down and torque increased. POH.To check bit and motor

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 602m - 605m
00:15	00:30	0.25	0.50	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , F/T ANNULAR < 33 SEC TO CLOSE >
00:30	00:45	0.25	0.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO F.I.T.
00:45	01:15	0.50	1.25	15	TEST B.O.P.	FORMATION INTEGRITY TEST 18 KPA/METER
01:15	03:00	1.75	3.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 605m - 609m
03:00	03:15	0.25	3.25	5	COND MUD & CIRC	CHANGE OUT MUD SYSTEM , DISPLACE TO PREMIXED GEL CHEMICAL
03:15	06:45	3.50	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 609m - 621m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	07:15	0.25	7.25	21	SAFETY MEETING	DRILLS/BOP, ETC.WELL SECURE IN 56 SEC/LAST MAN ON FLOOR IN 48 SEC
07:15	12:00	4.75	12.00	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 621m - 634m
12:00	12:30	0.50	12.50	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 634m - 635m
12:30	12:45	0.25	12.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS /CHECK ALL OILS/F/T UPPER PIPE RAMS 4 SEC TO CLOSE
12:45	13:00	0.25	13.00	20	DIR. WORK	DIRECTIONAL SURVEY
13:00	17:15	4.25	17.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 635m - 649m
17:15	17:30	0.25	17.50	20	DIR. WORK	DIRECTIONAL SURVEY
17:30	18:45	1.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 649m - 654m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HAND OVER MEETING
19:00	23:15	4.25	23.25	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FR 654m - 663m
23:15	23:30	0.25	23.50	20	DIR. WORK	DIRECTIONAL SURVEY
23:30	00:00	0.50	24.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO P.O.O.H. DUE TO MOTOR FAILURE

663.00mKB, 3/9/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	663.00	1050.0	47	12.0	6.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
0.667		1.0		0.0		0.8
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
45	0.900	500.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
		0.20	64.80	104.30

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
83,468.94	3,487,905.52
Daily Mud Cost	**Mud Additive Cost To Date**
5,979.76	45,309.21
Depth Start (mKB)	**Depth End (mKB)**
602.00	663.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60

Last Casing String: Surface, 601.00mKB

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
4,000	Yes	40	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
3,380	Yes	40	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CITRIC ACID	158.68	16.0
CLAY SYNC	386.36	2.0
CAUSTIC	47.91	2.0
PAC R	157.31	6.0
BARAZAN	184.89	8.0
CARBONOX	18.67	8.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	TRIPPING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #8, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
7	311.0mm, XR+, 8362		5-7-WT-A-E-311.00-NO-HR	722	2.3

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9/12.7	686.98	244.0

String Components

SMITH XR+, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	602.00	634.00	33.00	10.50	3.1		12	25	10,200			4,50...
Original Hole	634.00	663.00	62.00	20.75	2.8		18	25	10,800			6,00...

Daily Drilling

Report for: 3/8/2010
Report #: 24.0, DFS: 21.06
Depth Progress: 1.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-3	FAIR	Good

Operations at Report Time	Operations Next Report Period
Directional Drill From 601 to 621	Directional Drill

Operations Summary

Presure test BOPs Make up Dir tools and run in hole to 360m Shallow test Dir tools ans presure test lower pipe rams.Wash in hole to 552m tag cement .Drillout cement,float,and shoe.Drill 311mm hole from 601.2m to 602m

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:00	3.00	3.00	15	TEST B.O.P.	PRESSURE TEST BOPS , TEST REMAINING MANIFOLD SHACK VALVES , CHOKES , CHOKE LINE , MANUAL HCR VALVE TO 1500 KPA LOW AND 21000 KPA HIGH FOR 10 MINS EACH
03:00	03:30	0.50	3.50	14	NIPPLE UP B.O.P.	INSTALL WEAR BUSHING
03:30	04:45	1.25	4.75	25		WORK ON KELLY , CHANGE KELLY WIPER
04:45	05:00	0.25	5.00	21	SAFETY MEETING	SAFETY MEETING ON SILP AND CUT DRILL LINE / REVIEW JTA AND GO CARD
05:00	06:00	1.00	6.00	9	CUT OFF DRILLING LINE	SLIP & CUT 9m OF DRILLING LINE
06:00	06:45	0.75	6.75	25		WORK ON KELLY , INSTALL UPPER KELLY VALVE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	11:30	4.50	11.50	15	TEST B.O.P.	PRESSURE TEST BOPS , PRESSURE TEST UPPER KELLY VALVE TO 1500 KPA LOW AND 21000 KPA HIGH FOR 10 MINS EACH/AND LOWER KELLYCOCK CHANGING OUT LOWER KELLYCOCK 2 TIMES DO TO NOT HOLDING PRESSURE
11:30	12:00	0.50	12.00	25		BLOW KELLY WITH AIR
12:00	12:15	0.25	12.25	21	SAFETY MEETING	SAFETY MEETING WITH DIRECTIONAL HANDS
12:15	15:15	3.00	15.25	20	DIR. WORK	DIRECTIONAL WORK/PICK UP TOOLS
15:15	17:45	2.50	17.75	6	TRIPS	TRIP IN HOLE TO 369M LAYING OUT 9 IN DRILL COLLAR/PICK UP JARS/BREAK CIRC AND PULSE TEST MWD
17:45	18:45	1.00	18.75	15	TEST B.O.P.	PRESSURE TEST LOWER PIPE RAMS 1,500KPA LOW 21,000KPA HIGH
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HAND OVER MEETING
19:00	19:45	0.75	19.75	15	TEST B.O.P.	CONT PRESSURE TEST ON LOWER PIPE RAMS
19:45	20:00	0.25	20.00	15	TEST B.O.P.	ACCUMLATOR FUNCTION TEST ; STARTING PRESSURE 21,000KPA , CLOSE ANNULAR 9500KPA PRESSURE LOSS/33 STC , CLOSE UPPER PIPES 1100KPA PRESSURE LOSS/6 STC , CLOSE LOWER PIPES 800KPA PRESSURE LOSS/6 STC , OPEN HCR VALVE 100KPA PRESSURE LOSS / 3 STO ,
20:00	20:15	0.25	20.25	14	NIPPLE UP B.O.P.	NIPPLE UP BOP , INSTALL KILL LINE HOSE
20:15	20:30	0.25	20.50	21	SAFETY MEETING	B.O.P. DRILL HELD W/ CREW WELL SUCURE IN 83 SEC , LAST PERSON ON FLOOR IN 45 SEC
20:30	21:15	0.75	21.25	6	TRIPS	TRIP IN HOLE
21:15	21:45	0.50	21.75	3	REAMING	WASH DOWN SINGLES TO FIND CEMENT
21:45	23:45	2.00	23.75	2	DRILL ACTUAL	DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE , CEMENT @ 579m , PLUG @ 579.40m , FLOAT COLLAR @ 585.80m & SHOE @ 600.01m
23:45	00:00	0.25	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE F/ 601m - 602m

621.00mKB, 3/8/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	621.00	1040.0	45		3.400
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
0.500				9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40						

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
			73.90	

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
142,425.94	3,404,436.58
Daily Mud Cost	**Mud Additive Cost To Date**
6,810.42	39,329.45
Depth Start (mKB)	**Depth End (mKB)**
601.00	602.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	
Surface, 601.00mKB	

Daily Contacts

Job Contact	Mobile
Gordon Stewart	403 318 3621
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
SODA ASH	25.48	1.0
PAC L	157.31	6.0
CLAY SYNC	386.36	6.0
BARAZAN	184.89	8.0
GEL	11.81	169.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DIRECTIONAL WORK
00:00	Safety Meeting	KICK WARNING SIGNS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #8, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
7	311.0mm, XR+, 8362		5-7-WT-A-E-311.00-NO-HR	722	2.3

Nozzles (mm)	String Length (m)	OD (mm)
15.9/15.9/15.9/12.7	686.98	244.0

String Components

SMITH XR+, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	601.00	602.00	1.00	0.25	4.0		10	25	12,000			4,50...

WellView

Daily Drilling

Report for: 3/7/2010
Report #: 23.0, DFS: 20.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-2	FAIR	Cased

Operations at Report Time	Operations Next Report Period
Pressue test kelly cock	Directional Drill

Operations Summary

Nipple up and presure test BOPs

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	14	NIPPLE UP B.O.P.	NIPPLE UP BOP / PLACE DOUBLE GATE ONTO LOWER PIPE RAMS
01:15	02:30	1.25	2.50	14	NIPPLE UP B.O.P.	NIPPLE UP BOP / PICK UP ANNULAR AND PLACE ON DOUBLE GATE
02:30	06:45	4.25	6.75	14	NIPPLE UP B.O.P.	NIPPLE UP BOP , HAMMER UP ALL CONNECTIONS ON B.O.P.
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER
07:00	11:00	4.00	11.00	14	NIPPLE UP B.O.P.	CONT TO NIPPLE UP BOP,TURN STACK TO INSTALL CHOKE LINE,HAMMER UP ALL BOLTS
11:00	11:15	0.25	11.25	21	SAFETY MEETING	SAFETY MEETING/PREPARE TO AND PRESSURE TEST BOP/ REVIEWED JTA# 15-1
11:15	12:00	0.75	12.00	15	TEST B.O.P.	PREPARE TO AND PRESSURE TEST BOPS / WORK ON TEST PUMP
12:00	16:00	4.00	16.00	15	TEST B.O.P.	CONT TO PRESSURE TEST BOPS/BLIND RAMS/HCR VALVE/INSIDE KILL AND CASING TO 15000KPA,3.5 HOURS TO PRESSURE UP WITH AIR TEST PUMP
16:00	17:30	1.50	17.50	14	NIPPLE UP B.O.P.	INSTALL FLOW NIPPLE AND FLOW LINE
17:30	17:45	0.25	17.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS
17:45	18:45	1.00	18.75	15	TEST B.O.P.	WORK ON PRESSURE TESTING UNIT/CONT TO PRESSURE TEST BOPS/OUTSIDE KILL VALVE/UPPER PIPE RAMS/1500KPA LOW/21000KPA HIGH , LEAKS
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HAND OVER MEETING
19:00	19:30	0.50	19.50	15	TEST B.O.P.	CONT TO PRESSURE TEST BOPS / LEAKS
19:30	20:15	0.75	20.25	14	NIPPLE UP B.O.P.	NIPPLE UP BOP , HAMMER UP LEAKING FLANG JOINTS
20:15	20:45	0.50	20.75	15	TEST B.O.P.	PRESSURE TEST BOPS , TEST UPPER PIPE RAMS AND OUTSIDE KILL LINE VALVE TO 1500 KPA LOW AND 21000 KPA HIGH FOR 10 MINS EACH
20:45	21:00	0.25	21.00	15	TEST B.O.P.	TEST BOP , PULL TEST PLUG AND REPLACE O-RING
21:00	22:45	1.75	22.75	15	TEST B.O.P.	PRESSURE TEST BOPS , PRESSURE TEST ANNULAR TO 1500 KPA LOW AND 10500 KPA HIGH FOR 10 MINS EACH
22:45	23:45	1.00	23.75	14	NIPPLE UP B.O.P.	RELIEVE PRESSURE FROM MANUAL HCR VALVE BODY AND GREASE
23:45	00:00	0.25	24.00	15	TEST B.O.P.	PRESSURE TEST BOPS , PRESSURE TEST 4 MANIFOLD SHACK VALVES & INSIDE HCR VALVE TO 1500 KPA LOW AND 21000 KPA HIGH FOR 10 MINS EACH

601.00mKB, 3/7/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	601.00	1020.0	30		
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
				7.5		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				83.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
44,144.64	3,262,010.64
Daily Mud Cost	**Mud Additive Cost To Date**
4,266.38	32,519.03
Depth Start (mKB)	**Depth End (mKB)**
601.20	601.20
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ZETAG 7587	395.59	2.0
SODA ASH	25.48	3.0
CARBONOX	18.67	6.0
ALKAPAM A1103D	246.36	7.0
SAWDUST	6.93	18.0
CALCIUM NITRATE	53.24	27.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	PRESSURE TEST BOP
00:00	Safety Meeting	SLIP AND CUT DRILLING LINE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Drilling

Report for: 3/6/2010
Report #: 22.0, DFS: 19.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-4	FAIR	CASED

Operations at Report Time	Operations Next Report Period
NIPPLE UP BOP'S	PRESSURE TEST BOP'S

Operations Summary

CONTINUE TO RUN SURFACE CASING TO 601 M. CONDITIONED MUD. HELD SAFETY MEETING WITH BJ CEMENTERS AND RIGGEG IN CEMENT LINES.
PRESSURE TEST SURFACE LINES AND CEMENTED CASING.
RAN 45 JOINTS, 339.5 mm, J-55, 81.12 kg/m CASING. LANDED @ 601 m.
PUMPED - 3 m3 PREFLUSH, 86.54 ton PORTLAND CEMENT, YIELD .77 m3/t 67.24 kg/m3,
DISPLACED WITH 46.7 m3 WATER. DID NOT BUMP PLUG. STOPED DISPLACEMENT .6 m3 SHORT. 8 m3 GOOD CEMENT RETURNES TO SURFACE.
RIGGED OUT CEMENTERS AND WAITED ON CEMENT 12 HRS. RIGGED OUT CONDUCTOR ,CUT AND PREP CASING. INSTALLED SLIP LOCK VETCO 13 3/8 X 5000 psi. CASING HEAD,
SER # CW-126960-01.PRESSURE TEST TO 6500 kpa.
NIPPLE UP BOP'S.

Morning Tour Notes:
CHECKED MECHANICAL CROWN SAVER
CHECKED BRAKES AND LINKAGES
Day Tour Notes:
CHECKED BRAKES AND LINKAGES

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	12	RUN CASING AND CEMENT	CONT TO RUN 339.7mm SURFACE CASING , WASH DOWN LAST JOINT < NO FILL > ; 47 TOTAL JOINTS INCLUDING SHOE AND FLOAT COLLAR
00:30	03:15	2.75	3.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE SURFACE CASING
03:15	03:30	0.25	3.50	21	SAFETY MEETING	SAFETY MEETING W/ BJ CEMENTING SERVICES
03:30	06:00	2.50	6.00	12	RUN CASING AND CEMENT	RIG TO & CEMENT 339.7mm SURFACE CASING
06:00	06:45	0.75	6.75	13	WAIT ON CEMENT	WAIT ON CEMENT / FLUSH CONDUCTOR
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	12:00	5.00	12.00	13	WAIT ON CEMENT	WAIT ON CEMENT / DRAIN CONDUCTOR / CLEAN OUT FLOW LINE / CLEAN SHAKERS / CLEAN CELLAR AND PREP FOR WELDER / CONDUCTOR AND FLOW LINE COMPLETELY PLUGGED WITH CEMENT
12:00	18:00	6.00	18.00	13	WAIT ON CEMENT	CONT TO WAIT ON CEMENT
18:00	19:30	1.50	19.50	25		CUT CASING, AND PREP FOR CASING BOWL
19:30	19:45	0.25	19.75	21	SAFETY MEETING	CREW HAND OVER MEETING
19:45	21:45	2.00	21.75	14	NIPPLE UP B.O.P.	INSTALL CASING HEAD AND TEST
21:45	22:00	0.25	22.00	21	SAFETY MEETING	SAFETY MEETING ON PICK UP B.O.P.
22:00	22:30	0.50	22.50	22	TEAR DOWN	TEAR DOWN TRAVEL BEAMS IN SUB-STRUCTURE
22:30	00:00	1.50	24.00	14	NIPPLE UP B.O.P.	NIPPLE UP B.O.P. / INSTALL LOWER PIPE RAMS ON CASING HEAD

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
268,785.56	3,217,866.00
Daily Mud Cost	**Mud Additive Cost To Date**
707.91	28,252.65
Depth Start (mKB)	**Depth End (mKB)**
601.20	601.20
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	70	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BICARB	33.71	21.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CLEANING MUD TANKS
00:00	Safety Meeting	NIPPLE UP

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

WellView

Daily Drilling

Report for: 3/5/2010
Report #: 21.0, DFS: 18.06
Depth Progress: 12.20

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-4	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
WAIT ON CEMENT	WAIT ON CEMENT,NIPPLE UP BOP'S

Operations Summary

DIRECTIONAL DRILLED FROM 589 m TO 601 m. CASING POINT. CONDITION MUD AND PULLED OUT OF HOLE LAYED OUT DIRECTIONAL TOOLS. RIGGED TO RUN SURFACE CASING. HELD SAFETY MEETING WITH WEATHERFORD AND RAN SURFACE CASING.

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED MECHANICAL CROWN SAVER @ 145 HRS
PIPE COUNT @ 500 HRS - 16 IN HOLE , 289 ON RACKS , 305 TOTAL
Day Tour Notes:
FUNCTION CROWN SAVER @ 13:00 CHECK BRAKE LINKAGES
CHECKED BRAKES AND LINKAGES

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:30	1.50	1.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 589m - 593m
01:30	01:45	0.25	1.75	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OILS
01:45	02:00	0.25	2.00	20	DIR. WORK	DIRECTIONAL SURVEY @ 574.31m WAS 4.23 DEG
02:00	05:45	3.75	5.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 593m - 601.20m
05:45	06:00	0.25	6.00	20	DIR. WORK	BOTTOM HOLE DIRECTIONAL SURVEY @ 583m WAS 4.26 DEG
06:00	06:45	0.75	6.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO WIPER TRIP
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	10:30	3.50	10.50	6	TRIPS	TRIP OUT OF HOLE WITH F/C @ 639m/MEAS 8.24M3/CALC 8.21M3/DIFF .03M3
10:30	12:00	1.50	12.00	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS / LAY DOWN DIR TOOLS
12:00	13:15	1.25	13.25	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS / CONT TO LAY DOWN TOOLS
13:15	13:30	0.25	13.50	21	SAFETY MEETING	SAFETY MEETING/WITH WEATHERFORD TONG HANDS
13:30	15:15	1.75	15.25	12	RUN CASING AND CEMENT	RIG UP TO RUN CASING
15:15	15:30	0.25	15.50	21	SAFETY MEETING	SAFETY MEETING/LEVELING SUB
15:30	15:45	0.25	15.75	1	RIGUP & TEARDOWN	LEVEL RIG
15:45	16:00	0.25	16.00	21	SAFETY MEETING	SAFETY MEETING / RUNNING CASING
16:00	19:00	3.00	19.00	12	RUN CASING AND CEMENT	RUN 339.7mm SURFACE CASING
19:00	19:15	0.25	19.25	21	SAFETY MEETING	CREW HAND OVER MEETING
19:15	19:30	0.25	19.50	21	SAFETY MEETING	SAFETY MEETING W/ WEATHERFORD CASING SERVICES
19:30	00:00	4.50	24.00	12	RUN CASING AND CEMENT	CONT TO RUN 339.7mm SURFACE CASING

601.00mKB, 3/5/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	601.00	1150.0	68	18.0	11.500
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	8.000	6.5	1.0	8.5		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
90		900.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				142.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
55,705.25	2,949,080.44
Daily Mud Cost	**Mud Additive Cost To Date**
295.25	27,544.74
Depth Start (mKB)	**Depth End (mKB)**
589.00	601.20
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
GEL	11.81	25.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RUNNING CASING
00:00	Safety Meeting	CEMENTING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #7, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
6RR	444.5mm, 5HOA598-7086, NC5609	0.48	3-4-FC-A-E-8.00-NO-TD	792	2.7

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5/9.5	589.86	243.0

String Components

REED 5HOA598-7086, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	589.00	601.20	41.20	15.00	2.3		21	22	17,100			5,35...

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-2	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
PULL OUT FOR CASING	RUN CASING

Operations Summary

DIRECTIONAL DRILLED FROM 560 m TO 562 m
PULLED OUT OF HOLE FOR BIT CHANGE. RUN IN HOLE AND DRILLED FROM 562 M TO 589 M.

Morning Tour Notes:
CHECKED MECHANICAL CROWN SAVER @ 100 HRS
CHECKED BRAKES AND LINKAGES
Day Tour Notes:
F/T MECHINACLE CROWN SAVER @ 9:00/CHECK BRAKE LINKAGES
HELD MONKEYBOARD RESCUE DRILLS W/STONEHAM HSE COORDINATOR
15 SINGLES OF DRILL PIPE IN HOLE/290 SINGLES OF DRILL PIPE ON RACKS/305 SINGLES OF DRILL PIPE TOTAL ON LOCATION @ 18:30

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 560m - 562m
00:30	00:45	0.25	0.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO P.O.O.H. TO CHANGE BIT
00:45	01:00	0.25	1.00	20	DIR. WORK	DIRECTIONAL SURVEYS
01:00	01:30	0.50	1.50	6	TRIPS	TRIP OUT OF HOLE TO CHANGE BIT
01:30	01:45	0.25	1.75	25		BLOW BACK KELLY
01:45	03:00	1.25	3.00	6	TRIPS	TRIP OUT OF HOLE
03:00	03:15	0.25	3.25	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
03:15	04:15	1.00	4.25	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , BREAK BIT / PULL MWD TOOL AND INSTALL NEW MWD TOOL
04:15	04:45	0.50	4.75	6	TRIPS	TRIP IN HOLE
04:45	05:00	0.25	5.00	20	DIR. WORK	DIRECTIONAL WORK , KELLY UP AND SHALLOW TEST MWD TOOL
05:00	06:00	1.00	6.00	6	TRIPS	TRIP IN HOLE
06:00	06:30	0.50	6.50	3	REAMING	WASH TO BOTTOM
06:30	06:45	0.25	6.75	20	DIR. WORK	TOOL ORIENTATION
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	09:00	2.00	9.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 562m - 565m
09:00	09:15	0.25	9.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS
09:15	09:30	0.25	9.50	20	DIR. WORK	DIRECTIONAL SURVEYS
09:30	12:00	2.50	12.00	2	DRILL ACTUAL	CONT TO DRILL 444.5mm HOLE FR/565m-571m
12:00	16:00	4.00	16.00	2	DRILL ACTUAL	CONT TO DRILL 444.5mm HOLE FR/ 571m - 579m
16:00	16:15	0.25	16.25	20	DIR. WORK	DIRECTIONAL SURVEY
16:15	18:45	2.50	18.75	2	DRILL ACTUAL	CONT TO DRILL 444.5mm FR/ 579m - 584m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HAND OVER MEETING
19:00	20:45	1.75	20.75	2	DRILL ACTUAL	CONT TO DRILL 444.5mm HOLE FR/ 584m - 587m
20:45	21:00	0.25	21.00	7	RIG SERVICE	RIG SERVICE
21:00	22:30	1.50	22.50	8	REPAIR RIG	DOWNTIME - MUD PUMP , REPAIR AIR STARTER FOR PUMP #2 MOTOR
22:30	00:00	1.50	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 587m - 589m

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
71,255.55	2,893,375.19
Daily Mud Cost	**Mud Additive Cost To Date**
1,513.20	27,249.49
Depth Start (mKB)	**Depth End (mKB)**
560.00	589.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
GEL	11.81	18.0
EZ MUD DP	231.78	5.0
GEL	11.81	12.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	LOCK-OUT PROCEDURES

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

565.00mKB, 3/4/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	565.00	1150.0	52	15.0	7.200

Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
3.000	3.500	7.0	1.0	9.0		

MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
90		800.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				136.00

BHA #7, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
6RR	444.5mm, 5HOA598-7086, NC5609	0.48	3-4-FC-A-E-8.00-NO-TD	792	2.7

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5/9.5	589.86	243.0

String Components

REED 5HOA598-7086, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	560.00	589.00	29.00	9.75	3.0		18	26	17,800			5,80...

Daily Drilling

Report for: 3/3/2010
Report #: 19.0, DFS: 16.06
Depth Progress: 47.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-2	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD @ 562 m	DRILL AHEAD

Operations Summary

DIRECTIONAL DRILLED FROM 513 m TO 560 m

Morning Tour Notes:
DRILLER WALKAROUND INSPECT BRAKELINKAGE PINS F/T CROWN SAVER@2400HR
6-A SETTING AND PULLING SLIPS 2-D MOUSEHOLE CONNECTIONS
PIPE IN HOLE=11 ON LOCATION=294 TOTAL=305 CORRECT
Day Tour Notes:
F/T CROWN SAVER @ 12:15/CHECK BRAKE LINKAGES
REVIEWED AND DID EXERCISES ON RIGGING AND SLINGING/CONFINED SPACE ENTRY AWARENESS AND DISCUSS THE PROPER WAY TO USE GAS DETECTOR WITH RON LAPP
13 SINGLES OF DRILL PIPE IN HOLE/292 SINGLES OF DRILL PIPE ON RACKS/305 SINGLES OF DRILL PIPE TOTAL ON LOCATION @ 2400
CHECKED MECHANICAL CROWN SAVER @ 1915

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:45	5.75	5.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-513m TO 524m
05:45	06:00	0.25	6.00	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASED ALL MOVING COMPONENTS CHECKED ALL OILS CHANGED OUT AIR BAG IN SUCTION LINE.
06:00	06:15	0.25	6.25	20	DIR. WORK	DIRECTIONAL SURVEY AND CONNECTION ACCUM
06:15	07:45	1.50	7.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-524m TO 528m
07:45	08:00	0.25	8.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
08:00	12:00	4.00	12.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-528m TO 537M
12:00	12:15	0.25	12.25	20	DIR. WORK	DIRECTIONAL SURVEY AND CONNECTION ACCUM
12:15	12:30	0.25	12.50	7	RIG SERVICE	RIG SERVICE/GEASED ALL MOVING PARTS/CHECK ALL OILS/
12:30	19:00	6.50	19.00	2	DRILL ACTUAL	CONT TO DRILL 444.5mm HOLE FR 137m TO 552m
19:00	19:15	0.25	19.25	21	SAFETY MEETING	CREW HAND OVER MEETING
19:15	21:30	2.25	21.50	2	DRILL ACTUAL	CONT TO DRILL 444.5mm HOLE F/ 552m - 556m
21:30	22:15	0.75	22.25	25		WORK ON MUD PUMP , REMOVE VALVE COVER RING AND CLEAN UP AND THEN RE-INSTALL
22:15	23:45	1.50	23.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 556m - 560m
23:45	00:00	0.25	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS AND ORIENT TOOLFACE

554.00mKB, 3/3/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	554.00	1150.0	57		
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.000	4.000	6.2	1.0	8.75		9.5
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
85		850.000	40.000			

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				129.90

BHA #6, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
5	444.5mm, XR+, PK7165	0.46	-----0.00--	986	2.1

Nozzles (mm)	String Length (m)	OD (mm)
19.1/19.1/19.1/12.7	548.41	243.0

String Components
SMITH XR+, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
50,516.61	2,822,119.64
Daily Mud Cost	**Mud Additive Cost To Date**
1,558.50	25,736.29
Depth Start (mKB)	**Depth End (mKB)**
513.00	560.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
BARAZAN	184.89	7.0
PAC R	157.31	1.0
GEL	11.81	5.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DRIVING TO AND FROM WORK
00:00	Safety Meeting	TRIPPING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	513.00	537.00	33.00	16.50	2.1		17	1	16,400			0.0
Original Hole	537.00	560.00	56.00	26.75	2.2		18	26	16,900			5,60...

Daily Drilling

Report for: 3/2/2010
Report #: 18.0, DFS: 15.06
Depth Progress: 30.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-2	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD @527 M.	DRILL AHEAD

Operations Summary

DIRECTIONAL DRILLED FROM 483 m TO 504 m, UNABLE TO REDUCE BUILD (8.25 deg}
PULLED OUT OF HOLE TO ATTEMPT TO DIAL UP MUD MOTOR TO 1.83 deg BEND.UNABLE TO BREAK CONNECTION.
MAKE UP NEW TOOTH BIT,RUN IN HOLE AND DRILL FROM 504 M. TO 513 M.
SURVEY @ 505.96 - 7.51 deg. 319.49 azm.

Morning Tour Notes:
2-C RIG TONG OPERATIONS 2-B CATWALK OPERATIONS
CHECK MECHANICAL CROWN SAVER @ 2330
CHECKED BRAKES AND LINKAGES
PIPE COUNT IN HOLE=9 ON LOCATION=296 TOTAL=305 CORRECT
CHECKED MECHANICAL CROWN SAVER @ 700 HRS
Day Tour Notes:
CHECKED BRAKES AND LINKAGES

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:00	5.00	5.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-483m TO 494m
05:00	05:15	0.25	5.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OILS
05:15	06:45	1.50	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-494m TO 495m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	11:00	4.00	11.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 495m TO 504m
11:00	11:30	0.50	11.50	20	DIR. WORK	DIRECTIONAL SURVEYS , ORIENT TOOL FACE
11:30	11:45	0.25	11.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO P.O.O.H. TO DIAL UP MUD MOTOR
11:45	12:00	0.25	12.00	6	TRIPS	TRIP OUT OF HOLE TO DIAL UP MUD MOTOR
12:00	13:30	1.50	13.50	6	TRIPS	TRIP OUT OF HOLE TO DIAL UP MUD MOTOR
13:30	13:45	0.25	13.75	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
13:45	15:45	2.00	15.75	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS
15:45	16:15	0.50	16.25	6	TRIPS	TRIP IN HOLE
16:15	16:45	0.50	16.75	20	DIR. WORK	DIRECTIONAL WORK , KELLY UP AND SHALLOW TEST MWD TOOL
16:45	18:00	1.25	18.00	6	TRIPS	TRIP IN HOLE , WASH LAST SINGLE TO BOTTOM
18:00	18:45	0.75	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 504m - 505m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	22:15	3.25	22.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 505m - 510m
22:15	22:30	0.25	22.50	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASED ALL MOVING COMPONENTS CHECKED ALL OILS
22:30	23:45	1.25	23.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-510m TO 513m
23:45	00:00	0.25	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS

501.00mKB, 3/2/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	501.00	1145.0	46	13.0	7.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	4.000	7.5	1.0	7.5		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
70		600.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				131.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
40,325.01	2,771,603.03
Daily Mud Cost	**Mud Additive Cost To Date**
1,599.01	24,177.79
Depth Start (mKB)	**Depth End (mKB)**
483.00	513.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
BARAZAN	184.89	1.0
GEL	11.81	80.0
CAUSTIC	47.91	2.0
GEL	11.81	12.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HANDLE DIR. TOOLS
00:00	Safety Meeting	SETTING AND PULLING SLIPS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #6, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
5	444.5mm, XR+, PK7165	0.46	-----0.00--	986	2.1

Nozzles (mm)	String Length (m)	OD (mm)
19.1/19.1/19.1/12.7	548.41	243.0

String Components

SMITH XR+, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	504.00	513.00	9.00	5.25	1.7		13	1	15,900			0.0

WellView

Daily Drilling

Report for: 3/1/2010
Report #: 17.0, DFS: 14.06
Depth Progress: 26.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-4	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD @ 498 M.	DRILL AHEAD

Operations Summary

DIRECTIONAL DRILLED FROM 456 m TO 460 m, UNABLE TO REDUCE BUILD (8.1 deg}
PULLED OUT OF HOLE TO CHANGE OUT MUD MOTOR TO 1,5 deg BEND.
RUN IN HOLE AND DRILL FROM 460 M. TO 483 M.

Morning Tour Notes:
CATWALK OPWERATIONS 2-B 2-F OPERATION OF DRILL PANIL CONTROLS
2-C RIGTONG OPERATIONS
FUNCTION CROWN SAVER@2400HR
PIPE COUNT IN HOLE= 6 + 299 ON LOCATION = 305
F/T/ MECHANICAL CROWN SAVER @ 815 HRS
CHECKED BRAKES AND LINKAGES
Day Tour Notes:
CHECKED BRAKES AND LINKAGES
PIPE COUNT IN HOLE=8 ON LOCATION=297 TOTAL=305 CORRECT

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-456m TO 459
01:15	01:45	0.50	1.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
01:45	04:15	2.50	4.25	6	TRIPS	TRIP OUT OF HOLE CHANGE OUT MOTOR
04:15	04:30	0.25	4.50	21	SAFETY MEETING	SAFETY MEETING W/CREW AND DIRECTIONAL HAND.PRIOR TO LAYING OUT M.W.D TOOL & MUD MOTOR
04:30	06:30	2.00	6.50	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS DRAIN MOTOR BREAK OFF BIT LAY OUT MONELS.
06:30	06:45	0.25	6.75	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS PICK UP MUD MOTOR MAKE UP B.H.A
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER ON SITE SUPERVISORS.DIRECTIONAL HANDS
07:00	08:30	1.50	8.50	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS
08:30	09:15	0.75	9.25	6	TRIPS	TRIP IN HOLE
09:15	09:30	0.25	9.50	20	DIR. WORK	DIRECTIONAL WORK , KELLY UP AND SHALLOW TEST MWD TOOL
09:30	10:15	0.75	10.25	6	TRIPS	TRIP IN HOLE
10:15	10:30	0.25	10.50	3	REAMING	REAM & CLEAN THROUGH BRIDGE
10:30	11:00	0.50	11.00	6	TRIPS	TRIP IN HOLE
11:00	11:30	0.50	11.50	3	REAMING	WASH LAST SINGLE TO BOTTOM
11:30	11:45	0.25	11.75	20	DIR. WORK	TOOL ORIENTATION
11:45	12:00	0.25	12.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/459m - 460M
12:00	16:30	4.50	16.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 460m - 469m
16:30	16:45	0.25	16.75	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS
16:45	18:45	2.00	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 469m - 474m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	23:15	4.25	23.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 474m - 483m
23:15	23:30	0.25	23.50	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASED ALL MOVING PARTS CHECKED ALL OILS
23:30	00:00	0.50	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
103,341.84	2,731,278.02
Daily Mud Cost	**Mud Additive Cost To Date**
2,643.84	22,578.78
Depth Start (mKB)	**Depth End (mKB)**
456.00	483.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	85	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	85	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	90	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARAZAN	184.89	4.0
BARAZAN	184.89	8.0
GEL	11.81	36.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	SPILLS
00:00	Safety Meeting	RIG SERVICE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

470.00mKB, 3/1/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	470.00	1150.0	44	10.0	6.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.500	3.000	6.6	1.0	8.5		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
70		650.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				152.00

BHA #5, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
4	444.5mm, 5HOA598-7086, NC5609	0.48	1-3-FC-G-E-0.00-NO-HP	792	2.1

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5/9.5	493.92	243.0

String Components

REED 5HOA598-7086, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	456.00	459.00	59.00	27.25	1.3	3.000	18	45	14,500	63		0.0
Original Hole	460.00	483.00	82.00	38.00	2.1	3.000	17	1	16,000	63		0.0

Daily Drilling

Report for: 2/28/2010
Report #: 16.0, DFS: 13.06
Depth Progress: 47.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-7	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
MAKING UP MUD MOTOR 1.5 deg BEND	RUN IN HOLE,DRILL AHEAD

Operations Summary

DIRECTIONAL DRILLED FROM 409 m TO 459 m,

Morning Tour Notes:
2-C RIG TONG OPERATION 2-D MOUSEHOLE CONNECTION
2-B CATWALK OPERATION 2-A HOUSEKEEPING
CHECK BRAKES AND LINKAGES
FUNCTION TEST MECHANICAL CROWN SAVER @ 9:20HRS
PIPE COUNT - 4 IN HOLE , 301 ON RACKS , 305 TOTAL
Day Tour Notes:
CHECKED BRAKES AND LINKAGES
GREASED CROWN AND BLOCKS

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:30	2.50	2.50	2	DRILL ACTUAL	DRILL 444.5 mm HOLE FR-409m TO 415m
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASE ALL MOVING PARTS CHECKED ALL OILS
02:45	06:45	4.00	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-415m TO 423m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	11:30	4.50	11.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 423m - 432m
11:30	12:00	0.50	12.00	20	DIR. WORK	DIRECTIONAL SURVEYS AND ORIENT TOOLFACE
12:00	16:30	4.50	16.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 432m - 442m
16:30	16:45	0.25	16.75	7	RIG SERVICE	RIG SERVICE GREAESED ALL MOVING PARTS, BLOCKS, AND CROWN, CHECKED OIL LEVELS
16:45	18:45	2.00	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 442m - 446m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	23:15	4.25	23.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 446m - 456m
23:15	23:30	0.25	23.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECKED ALL OILS F/T CROWN SAVER
23:30	00:00	0.50	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS ACCUMULATED

429.00mKB, 2/28/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	429.00	1175.0	46	14.0	8.100
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	4.500	6.0	1.0	9.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
70		750.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				144.00

BHA #5, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
4	444.5mm, 5HOA598-7086, NC5609	0.48	1-3-FC-G-E-0.00-NO-HP	792	2.1

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5/9.5	493.92	243.0

String Components

REED 5HOA598-7086, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
40,939.55	2,627,936.18
Daily Mud Cost	**Mud Additive Cost To Date**
4,236.87	19,934.94
Depth Start (mKB)	**Depth End (mKB)**
409.00	456.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	
	No	85	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	
	No	85	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
CAUSTIC	47.91	2.0
BARAZAN	184.89	6.0
CAUSTIC	47.91	2.0
BARAZAN	184.89	11.0
CAL CARB '0'	11.97	56.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRAPPED TABLE TORQUE
00:00	Safety Meeting	KICK WARNING SIGNS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	409.00	425.00	25.00	10.90	2.1		12	35	13,500			3,70...
Original Hole	425.00	432.00	32.00	14.25	2.1		14	45	13,500			3,70...
Original Hole	432.00	456.00	56.00	25.00	2.2		17	45	14,800			4,80...

WellView

Daily Drilling

Report for: 2/27/2010
Report #: 15.0, DFS: 12.06
Depth Progress: 17.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-4	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD	DRILL AHEAD

Operations Summary

DRILLED FROM 392 M TO 400 M. CIRCULATED HOLE CLEAN
AND PULLED OUT OF HOLE TO PICK UP DIRECTIONAL TOOLS.
RIGED IN SCHLUMBERGER,MADE UP 5 - 6 / 3 STAGE MUD MOTOR 1,15 deg. BEND
AND DIRECTIONAL MWD TOOLS. RAN IN HOLE,REAMED FROM 390 M TO 400 M.
DIRECTIONAL DRILLED FROM 400 M TO 409 m,

Morning Tour Notes:
RIG TONG OPERATION 2-C WIRELINE SURVEYS 10-1
MOUSEHOLE CONNECTIONS 2-D
CHECK BOTH CROWN SAVERS @ 710 HRS
CHECKED BRAKES AND LINKAGES
Day Tour Notes:
CHECKED BRAKES AND LINKAGES

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:15	5.25	5.25	2	DRILL ACTUAL	DRILL 444.5MM HOLE FR-392m TO 399m
05:15	05:30	0.25	5.50	7	RIG SERVICE	RIG SERVICE GREASE ALL MOVING PARTS CHECKED ALL OILS F/T CROWN SAVER
05:30	06:00	0.50	6.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-399m TO 400m
06:00	06:45	0.75	6.75	5	COND MUD & CIRC	CIRCULATE AND CONDITION
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY , CREW HANDOVER NOTES
07:00	08:45	1.75	8.75	6	TRIPS	TRIP OUT OF HOLE , LAYDOWN PONY DC , NMDC AND SHOCK SUB
08:45	09:00	0.25	9.00	7	RIG SERVICE	CLEAN - FLOOR
09:00	11:00	2.00	11.00	20	DIR. WORK	DIRECTIONAL WORK
11:00	11:15	0.25	11.25	21	SAFETY MEETING	SAFETY MEETING W/ SCHLUMBERGER DIR. SERVICES
11:15	12:00	0.75	12.00	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , PICK UP BHA
12:00	13:00	1.00	13.00	20	DIR. WORK	DIRECTIONAL WORK
13:00	17:00	4.00	17.00	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , PICK UP MOTOR , FLOAT SUB , STAB , UBHO , MWD TOOL AND 2 NMDC ; SCRIBE MUD MOTOR AND SET MULE SHOE
17:00	18:45	1.75	18.75	6	TRIPS	TRIP IN HOLE , STOP AND SURVEY EVERY STAND
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	19:15	0.25	19.25	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASE ALL MOVING PARTS CHECKED ALL OILS
19:15	20:30	1.25	20.50	3	REAMING	REAM & CLEAN FR-387m TO B.T.M
20:30	23:45	3.25	23.75	2	DRILL ACTUAL	DRILL 444.5mm AND PATTERN BIT FR-400m TO 409m
23:45	00:00	0.25	24.00	10	DEV. SURVEY	DEVIATION SURVEY ACCUM

400.00mKB, 2/27/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	400.00	1180.0	54	17.0	9.600
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500	5.000	7.2	1.0	8.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
75		650.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				147.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
49,813.25	2,586,996.63
Daily Mud Cost	**Mud Additive Cost To Date**
1,157.25	15,698.07
Depth Start (mKB)	**Depth End (mKB)**
392.00	409.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
BARAZAN	184.89	6.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MAKE UP DIR. TOOLS
00:00	Safety Meeting	DIRECTIONAL DRILLING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #5, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
4	444.5mm, 5HOA598-7086, NC5609	0.48	1-3-FC-G-E-0.00-NO-HP	792	2.1

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5/9.5	493.92	243.0

String Components

REED 5HOA598-7086, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	400.00	409.00	9.00	3.25	2.8		18	1	14,100			4,80...

Daily Drilling

Report for: 2/26/2010
Report #: 14.0, DFS: 11.06
Depth Progress: 35.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-5	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
PULL OUT FOR DIRECTIONAL TOOLS	DRILL AHEAD

Operations Summary

DRILLED FROM 357 M TO 378 M. CIRCULATED HOLE CLEAN, SURVEYED (7.4 deg.)
AND PULLED OUT OF HOLE TO REARANGE BHA TO PENDLUM ASSEMBLY. LAYED OUT STABILIZERS AND RUN IN HOLE.
DRILLED FROM 378 M TO 392 m..

Morning Tour Notes:
WIRELINE SURVEY 10-1 RIG TONG OPERATION 2-C 2-B CATWALK OPERATION
CHECK CROWN SAVER @ 345 HRS
F/T MECHANICAL CROWN SAVER @ 1015 HRS
Day Tour Notes:
CHECKED BRAKES AND LINKAGES

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:45	3.75	3.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-357m TO 364m
03:45	04:00	0.25	4.00	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASE ALL MOVING PARTS CHECKED ALL OILS
04:00	04:15	0.25	4.25	10	DEV. SURVEY	SURVEY @ 358m / 6.77 DEGREES
04:15	06:45	2.50	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-364m TO 371m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	10:15	3.25	10.25	2	DRILL ACTUAL	DRILL 444mm HOLE FR-371m TO 378m
10:15	10:30	0.25	10.50	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEY @ 375m WAS 7.47 DEG
10:30	10:45	0.25	10.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO MOVE STABS
10:45	11:30	0.75	11.50	6	TRIPS	TRIP OUT OF HOLE TO MOVE STABS
11:30	12:00	0.50	12.00	6	TRIPS	LAY DOWN BHA
12:00	12:45	0.75	12.75	6	TRIPS	LAY DOWN BHA
12:45	13:00	0.25	13.00	7	RIG SERVICE	CLEAN - FLOOR
13:00	13:30	0.50	13.50	6	TRIPS	PICK UP BHA , STABS AND JARS
13:30	14:30	1.00	14.50	6	TRIPS	TRIP IN HOLE
14:30	14:45	0.25	14.75	5	COND MUD & CIRC	BREAK CIRCULATION AND WASH TO BTM.
14:45	22:00	7.25	22.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 378m - 388m
22:00	22:15	0.25	22.25	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASE ALL MOVING PARTS CHECKED ALL OILS
22:15	00:00	1.75	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-388m TO 392m

386.00mKB, 2/26/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	386.00	1180.0	52		
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
3.500			1.0	8.5		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
75		650.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				109.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
59,796.00	2,537,183.38
Daily Mud Cost	**Mud Additive Cost To Date**
2,692.57	14,540.82
Depth Start (mKB)	**Depth End (mKB)**
357.00	392.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
CAUSTIC	47.91	1.0
BARAFOS	97.10	2.0
BARAZAN	184.89	4.0
BARAZAN	184.89	8.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	ROTARY TABLE DANGER ZONE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #4, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
3	444.5mm, GTX-40, 6075440	0.44	4-6-FC-A-E-1.00-WT-BHA	482	2.3

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/14.3	384.32	243.0

String Components

HUGHES GTX-40, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	357.00	378.00	119.00	47.50	2.2		14	160	13,300			3,30...
Original Hole	378.00	392.00	133.00	56.50	1.6		12	160	14,000			3,00...

Daily Drilling

Report for: 2/25/2010
Report #: 13.0, DFS: 10.06
Depth Progress: 40.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-8	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING @ 374 M	DRILL AHEAD

Operations Summary

DRILLED FROM 316 M TO 342 M. CIRCULATED HOLE CLEAN, SURVEYED
AND PULLED OUT OF HOLE TO REARANGE BHA TO PACKED ASSEMBLY.BEARING FAILURE IN MUD MOTOR.LAYED OUT, PICKED UP STABILIZERS AND RUN IN HOLE.
DRILLED FROM 342 M TO 357M.

Morning Tour Notes:
2-A HOUSE KEEPING 2-B CATWALK OPERATION 7-1 RIG SERVICE
F/T MECHANICAL CROWN SAVER @ 1045 HRS
Day Tour Notes:
RIGTONG OPERATION 2-C PIPE SPINNER USE 6-7
SETTING AND PULLING SLIPS 6-A

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:00	5.00	5.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-316m TO 328m
05:00	05:15	0.25	5.25	7	RIG SERVICE	RIG SERVICE GREASE ALL MOVING PARTS CHECKED ALL OILS FUNCTION CROWN SAVER
05:15	07:00	1.75	7.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-328m TO 334m
07:00	07:15	0.25	7.25	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:15	11:15	4.00	11.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-334m TO 342m
11:15	11:30	0.25	11.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE CLEAN PRIOR TO P.O.O.H. TO PICK UP STABS
11:30	12:00	0.50	12.00	6	TRIPS	TRIP OUT OF HOLE TO PICK UP STABS
12:00	13:15	1.25	13.25	6	TRIPS	TRIP OUT OF HOLE TO PICK UP STABS
13:15	13:30	0.25	13.50	7	RIG SERVICE	CLEAN - FLOOR
13:30	14:45	1.25	14.75	6	TRIPS	LAY DOWN BHA , LAYDOWN PONY COLLAR/NMDC/SHOCK SUB/ FLOAT SUB & MUD MOTOR
14:45	16:00	1.25	16.00	6	TRIPS	PICK UP BHA , PICK UP NMDC/PONY COLLAR AND 3 STRING STABS
16:00	17:45	1.75	17.75	6	TRIPS	MAKE UP DRILL COLLARS AND TRIP IN HOLE
17:45	18:00	0.25	18.00	3	REAMING	WASH TO BOTTOM
18:00	21:45	3.75	21.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 342m -TO 351m
21:45	22:00	0.25	22.00	7	RIG SERVICE	RIG SERVICE F/T CROWN SAVER GREASE ALL MOVING PARTS CHECKED ALL OILS
22:00	00:00	2.00	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-351m TO 357m

341.00mKB, 2/25/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	341.00	1150.0	47	15.0	6.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.300	3.000	6.6	1.0	8.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		650.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				115.00

BHA #4, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
3	444.5mm, GTX-40, 6075440	0.44	4-6-FC-A-E-1.00-WT-BHA	482	2.3

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/14.3	384.32	243.0

String Components

HUGHES GTX-40, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
58,595.00	2,477,387.38
Daily Mud Cost	**Mud Additive Cost To Date**
1,904.59	11,848.25
Depth Start (mKB)	**Depth End (mKB)**
316.00	357.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARAZAN	184.89	2.0
PAC R	157.31	4.0
CAUSTIC	47.91	1.0
BARAZAN	184.89	4.0
GEL	11.81	10.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	LAYDOWN AND PICK UP BHA
00:00	Safety Meeting	BOILER OPERATION

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	316.00	341.00	83.00	32.00	2.3		13	35	13,700			5,80...
Original Hole	342.00	357.00	98.00	38.00	2.5		13	145	13,500			3,30...

Daily Drilling

Report for: 2/24/2010
Report #: 12.0, DFS: 9.06
Depth Progress: 41.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
CLEAR	-6	FAIR	GOOD

Operations at Report Time	Operations Next Report Period
DRILLING AHEAD 2.5-3 M/hr	DRILL AHEAD

Operations Summary

DRILLED FROM 275 M TO 314 M. CIRCULATED HOLE CLEAN, SURVEYED (4.5 deg) AND PULLED OUT OF HOLE TO REARANGE BHA. MOVE STRING STABILIZER UP AND RUN IN HOLE.
DRILLED FROM 314 M TO 316 M.

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED MECHANICAL CROWN SAVER @ 415 HRS
SHUT IN BOLIR@1000HR
Day Tour Notes:
REVIEWED JTAS 2-A HOUSEKEEPING, 2-B CATWALK OPERATIONS, 2-G MOVING DRILL PIPE FROM PIPE TUBS TO CATWALK
FUNCTION CROWN SAVER

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:15	4.25	4.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 275m - 286m
04:15	04:30	0.25	4.50	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OILS
04:30	04:45	0.25	4.75	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEY @ 276m WAS 3.81 DEG
04:45	06:45	2.00	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 286m - 293m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	10:15	3.25	10.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 293m - 300m
10:15	10:30	0.25	10.50	7	RIG SERVICE	RIG SERVICE GREAS ALL MOVING PARTS AND CHECKED ALL OILS F/T CROWN SAVER
10:30	12:00	1.50	12.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-300m TO 306m
12:00	15:15	3.25	15.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 306m - 312m
15:15	15:45	0.50	15.75	25		CHANGE MIDDLE HEAD IN MUD PUMP #2
15:45	16:45	1.00	16.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 312m - 314m
16:45	17:00	0.25	17.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO MOVE STAB
17:00	17:15	0.25	17.25	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
17:15	17:30	0.25	17.50	21	SAFETY MEETING	SAFETY MEETING , REVIEW GO CARD AND JTA ON PIPE SPINNER USE
17:30	19:00	1.50	19.00	6	TRIPS	TRIP OUT OF HOLE TO MOVE STAB UP IN STRING
19:00	20:30	1.50	20.50	6	TRIPS	LAY DOWN BHA
20:30	21:30	1.00	21.50	6	TRIPS	PICK UP BHA
21:30	22:30	1.00	22.50	6	TRIPS	TRIP IN HOLE
22:30	22:45	0.25	22.75	7	RIG SERVICE	RIG SERVICE GREASE ALL MOVING PARTS CHECKED ALL OILS F/T CROWN SAVER
22:45	00:00	1.25	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-314m TO 316m

318.00mKB, 2/24/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	318.00	1160.0	47	13.0	5.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.000	3.000	6.6		8.5		9.8
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		600.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				115.00

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
29,060.44	2,418,792.38
Daily Mud Cost	**Mud Additive Cost To Date**
877.64	9,943.66
Depth Start (mKB)	**Depth End (mKB)**
275.00	316.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Allan Albertson	403 390 9975

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARAZAN	184.89	1.0
BARAZAN	184.89	2.0
SAWDUST	6.93	4.0
GEL	11.81	25.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	WIRE ROPE SAFETY AND INSPECTION
00:00	Safety Meeting	LOADER OPERATION

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

BHA #4, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
3	444.5mm, GTX-40, 6075440	0.44	4-6-FC-A-E-1.00-WT-BHA	482	2.3

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/14.3	384.32	243.0

String Components

HUGHES GTX-40, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	275.00	286.00	28.00	8.65	2.8		15	30	13,200			3,50...
Original Hole	286.00	306.00	48.00	15.75	2.8		10	35	13,200			3,50...
Original Hole	306.00	316.00	58.00	21.25	1.8		12	35	13,700			4,50...

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	0	FAIR	GOOD
Operations at Report Time		**Operations Next Report Period**	
DRILLING		DRILL AHEAD	

Operations Summary

WAITED ON FISHING TOOLS TO 02:30 HRS. MADE UP OVERSHOT,BUMPER SUB AND FISHING JARS AND RAN IN HOLE TO TOP OF FISH. CIRCULATE AND ATTEMPT TO LATCH FISH. UNABLE TO SLIDE OVER FISHNECK.PULL OUT AND REDRESS OVERSHOT WITH LARGER GRAPPEL. RUN IN HOLE, LATCH UNTO FISH AND PULL OUT AND RECOVER FISH. LAY OUT FISH AND FISHING TOOLS.
MAKE UP NEW BIT ,MUD MOTOR AND RUN IN HOLE.
DRILLED FROM 258 M TO 275 M.

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED MECHANICAL CROWN SAVER @ 200 HRS
Day Tour Notes:
REVIEWED JTAS 6-A SETTING AND PULLING SLIPS, 6-G HANDLE BOTTOM HOLE EQUIPMENT, 6-I DOG COLLAR USE, 6-H PIPE SPINNER USE
F/T MECHANICAL CROWN SAVER @ 1915 HRS
F/T MOTOR KILLS

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:15	2.25	2.25	23	WAITING ON	W/O THIRD PARTY TOOLS ; FISHING TOOLS
02:15	02:30	0.25	2.50	21	SAFETY MEETING	SAFETY MEETING ON PICKING UP FISHING TOOLS
02:30	03:00	0.50	3.00	19	FISHING	HANDLE FISHING TOOLS
03:00	04:30	1.50	4.50	19	FISHING	TRIP FISHING TOOLS
04:30	05:00	0.50	5.00	5	COND MUD & CIRC	CIRCULATE ABOVE FISH
05:00	06:00	1.00	6.00	19	FISHING	FISHING
06:00	06:15	0.25	6.25	25		BLOW BACK KELLY
06:15	06:45	0.50	6.75	19	FISHING	TRIP FISHING TOOLS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER MEETING
07:00	07:30	0.50	7.50	19	FISHING	TRIP FISHING TOOLS
07:30	08:00	0.50	8.00	19	FISHING	HANDLE FISHING TOOLS RETREVE FISH-NO FISH
08:00	09:00	1.00	9.00	19	FISHING	CHANGE OUT GRAPPEL TO 9.25
09:00	10:00	1.00	10.00	6	TRIPS	TRIP IN HOLE W/FISHING TOOL
10:00	10:30	0.50	10.50	5	COND MUD & CIRC	PICK UP KELLY CIRCULATE PRIOR TO WASHING OVER FISHING TOOL
10:30	12:00	1.50	12.00	19	FISHING	TRIP FISHING TOOLS
12:00	12:15	0.25	12.25	19	FISHING	TRIP FISHING TOOLS;RETRIEVED FISH
12:15	12:30	0.25	12.50	7	RIG SERVICE	RIG SERVIC, GREASE ALL MOVING COMPONENTS, FUNCTION CROWN SAVER
12:30	12:45	0.25	12.75	16	DRILLSTEM TEST	HANDLE FISHING TOOLS LAY OUT STAB, LAY OUT FISH
12:45	14:30	1.75	14.50	6	TRIPS	CHANGE BIT, PICK UP BHA, MOVE STAB CLOSER TO BIT, PICK UP PONY COLLAR, JARS, AND TWO COLLARS OFF CATWALK
14:30	17:15	2.75	17.25	6	TRIPS	TRIP IN HOLE W/NEW BHA
17:15	18:45	1.50	18.75	3	REAMING	WASH&CLEAN FR-253m TO 258m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY W/CREW ONSITE SUPERVISORS
19:00	23:30	4.50	23.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 258m - 273m
23:30	23:45	0.25	23.75	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEY @ 257m WAS 3.10 DEG
23:45	00:00	0.25	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 273m - 275m

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
54,737.80	2,389,731.94
Daily Mud Cost	**Mud Additive Cost To Date**
232.80	9,066.02
Depth Start (mKB)	**Depth End (mKB)**
258.00	275.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	1.0
BARAZAN	184.89	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MAKING UP B.H.A
00:00	Safety Meeting	FATIGUE WHILE DRIVING HOME ON LONG CHANGE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

266.00mKB, 2/23/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	266.00	1150.0	46	13.0	3.800
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.500	3.000	6.4	1.0	8.0		
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40		600.000				

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
				76.90

BHA #4, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
3	444.5mm, GTX-40, 6075440	0.44	4-6-FC-A-E-1.00-WT-BHA	482	2.3

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/14.3	384.32	243.0

String Components

HUGHES GTX-40, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	258.00	275.00	17.00	4.75	3.6		15	30	12,500			4,00...

WellView

Daily Drilling

Report for: 2/22/2010
Report #: 10.0, DFS: 7.06
Depth Progress: 0.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
PARTLY CLOUDY	-1	FAIR	Good

Operations at Report Time	Operations Next Report Period
Fishing	Fishing

Operations Summary

Waited on fishing tools.

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
Day Tour Notes:
REVIEWED JTAS 2-A HOUSEKEEPING, 7-1 RIG SERVICE

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:45	6.75	6.75	23	WAITING ON	W/O THIRD PARTY TOOLS ; FISHING TOOLS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	12:00	5.00	12.00	23	WAITING ON	W/O THIRD PARTY TOOLS ; FISHING TOOLS
12:00	18:45	6.75	18.75	23	WAITING ON	W/O THIRD PARTY TOOLS:FISHING TOOLS
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING - CREW HANDOVER
19:00	00:00	5.00	24.00	23	WAITING ON	W/O THIRD PARTY TOOLS ;FISHING TOOLS

258.00mKB, 2/22/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	258.00	1200.0	51		5.300
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
69,050.00	2,334,994.14
Daily Mud Cost	**Mud Additive Cost To Date**
267.56	8,833.22
Depth Start (mKB)	**Depth End (mKB)**
258.00	258.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Bill Williams	709 765 1074
Gordon Stewart	403 318 3621

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARAZAN	184.89	1.0
GEL	11.81	7.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	WINTER OPERATIONS
00:00	Safety Meeting	FISHING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 2/21/2010
Report #: 9.0, DFS: 6.06
Depth Progress: 12.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
DRIZZLE / MIST	-1	FAIR	Good

Operations at Report Time	Operations Next Report Period
Waiting on fishing tools	waiting on fishing tools

Operations Summary

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
39,294.14	2,265,944.14
Daily Mud Cost	**Mud Additive Cost To Date**
1,551.73	8,565.66
Depth Start (mKB)	**Depth End (mKB)**
246.00	258.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:00	2.00	2.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 246m - 249m
02:00	02:15	0.25	2.25	7	RIG SERVICE	RIG SERVICE , GREASE ALL MOVING PARTS AND CROWN , CHECKED ALL OILS
02:15	02:30	0.25	2.50	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEY @ 234m WAS 3.02 DEG
02:30	06:45	4.25	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 249m - 256m
06:45	07:15	0.50	7.25	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES NALCOR ONSITE SUPERVISORS.
07:15	09:45	2.50	9.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR 256m TO 258m
09:45	10:15	0.50	10.25	5	COND MUD & CIRC	CIRCULATE AND CONDITION
10:15	12:00	1.75	12.00	6	TRIPS	TRIP OUT OF HOLE TO CHANGE OUT BHA, LAYOUT UNDER GAUGE STABILIZER, AND NEAR BIT STABILIZER
12:00	12:15	0.25	12.25	21	SAFETY MEETING	JTA (JOB SAFETY ANALYSIS) HANDLE TOOLS
12:15	12:30	0.25	12.50	7	RIG SERVICE	RIG SERVICE, GREASED ALL MOVING COMPONENTS, CHECKED OIL LEVELS, FUNCTIONED CROWN SAVER
12:30	17:15	4.75	17.25	6	TRIPS	PICK UP BHA TRIP IN HOLE / PICK UP MUD MOTOR, 2 STABILIZERS, ONE NON-MAG DRILL COLLAR, AND 2 PONY COLLARS
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR 258m / TRY TO DRILL BY INCREASING PUMP RATES, INCREASING WEIGHT ON BIT, ROTARY RPM RANGING FROM 30 - 80 / HIGH TORQUE AND NO DIFFERENTIAL PRESSURE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING, PRE-TOUR SAFETY MEETING AND CREW HANDOVER
19:00	19:45	0.75	19.75	25		ATTEMPT TO MAKE DRILL BY INCREASING PUMP STROKES & ADJUSTING ROTARY RPM
19:45	21:00	1.25	21.00	6	TRIPS	TRIP OUT OF HOLE DUE TO NOT BEING ABLE TO DRILL ; GOT TO SHOCK SUB AND IT HAD COME APART LEAVING A 24m FISH IN THE HOLE
21:00	00:00	3.00	24.00	23	WAITING ON	W/O THIRD PARTY TOOLS ; FISHING TOOLS

258.00mKB, 2/21/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	258.00	1200.0	51		
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
		6.8	1.0	8.0	2.5	
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
12.00	2.50	10.00		123.00

BHA #3, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
2	444.5mm, G15BODCPS, MZ0261	0.44	-------	1,514	1.7

Nozzles (mm)	String Length (m)	OD (mm)
23.8/23.8/23.8/15.1	244.98	244.0

String Components

SMITH G15BODCPS, MOTOR HS, FLOAT SUB, DC-NM, STRING STABLIZER, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Daily Contacts

Job Contact	Mobile
Allan Albertson	403 390 9975
Gordon Stewart	403 318 3621
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
BARAZAN	184.89	2.0
GEL	11.81	15.0
CAUSTIC	47.91	1.0
BARAZAN	184.89	1.0
PAC R	157.31	1.0
SAWDUST	6.93	66.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CREW HANDOVER W/NALCOR SAFETY REPRESENT...
00:00	Safety Meeting	MOOSE ON ROADWAYS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	246.00	249.00	46.00	24.94	1.4		14	135	9,200			6,00...
Original Hole	249.00	258.00	55.00	31.50	1.4		11	160	9,200			6,00...

Daily Drilling

Report for: 2/20/2010
Report #: 8.0, DFS: 5.06
Depth Progress: 43.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
OVERCAST	-1	FAIR	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead @257m	Drilling ahead

Operations Summary

Morning Tour Notes:
CHECKED MECHANICAL CROWN SAVER @ 200 HRS
CHECKED BRAKES AND LINKAGES
Day Tour Notes:
REVIEWED JTAS 18-3 CHANGING TONG DIES, 2-A HOUSEKEEPING, 2-C RIG TONG OPERATIONS
FUNCTIONED CROWN SAVER
CHECKED BRAKES AND LINKAGES

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:00	2.00	2.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 203m - 208m
02:00	02:15	0.25	2.25	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS
02:15	06:45	4.50	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 208m - 218m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING ,CREW HANDOVER NOTES
07:00	09:15	2.25	9.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 218m - 221m
09:15	09:30	0.25	9.50	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
09:30	12:00	2.50	12.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR 221m TO 227m
12:00	17:15	5.25	17.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR 227m TO 235m
17:15	17:30	0.25	17.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS, CHECK OIL LEVELS, FUNCTION CROWN SAVER
17:30	18:45	1.25	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR 235m TO 238m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR 238m TO 246m

257.00mKB, 2/20/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	257.00	1200.0			
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #3, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
2	444.5mm, G15BODCPS, MZ0261	0.44	-------	1,514	1.7

Nozzles (mm)	String Length (m)	OD (mm)
23.8/23.8/23.8/15.1	244.98	244.0

String Components

SMITH G15BODCPS, MOTOR HS, FLOAT SUB, DC-NM, STRING STABLIZER, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	203.00	207.00	4.00	1.88	2.1		10	180	8,700			6,00...
Original Hole	207.00	227.00	24.00	11.25	2.1		10	140	8,700			6,00...
Original Hole	227.00	246.00	43.00	22.75	1.7		10	135	9,000			6,00...

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
29,050.00	2,226,650.00
Daily Mud Cost	**Mud Additive Cost To Date**
889.27	7,013.93
Depth Start (mKB)	**Depth End (mKB)**
203.00	246.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARAZAN	184.89	2.0
PAC R	157.31	2.0
SAWDUST	6.93	4.0
GEL	11.81	15.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CHANGING TONG DIES
00:00	Safety Meeting	GREASING CROWN

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 2/19/2010
Report #: 7.0, DFS: 4.06
Depth Progress: 25.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
Fair	-2	FAIR	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead at 220	Drilling ahead

Operations Summary

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
75,350.00	2,197,600.00
Daily Mud Cost	**Mud Additive Cost To Date**
839.06	6,124.66
Depth Start (mKB)	**Depth End (mKB)**
161.00	202.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:30	3.50	3.50	2	DRILL ACTUAL	DRILL 444.5mm F/ 161m - 168m
03:30	03:45	0.25	3.75	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS
03:45	04:00	0.25	4.00	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEY @ 152m WAS
04:00	06:45	2.75	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 168m - 176m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	10:15	3.25	10.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 176m - 182m
10:15	10:30	0.25	10.50	7	RIG SERVICE	RIG SERVICE- CHECK BOLTS ON KELLY SPINNER, GREASED PACIFIC RIM CLUTCHES, CHECKED OIL LEVELS, GREASED ALL MOVING COMPONENTS
10:30	10:45	0.25	10.75	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
10:45	12:00	1.25	12.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR- 182mm TO 186m
12:00	16:30	4.50	16.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-186m TO 196m
16:30	16:45	0.25	16.75	7	RIG SERVICE	RIG SERVICE GREASED DRAWWORKS AND DRIVELINE, CHECK OIL LEVEL IN FLOOR MOTOR AND TRANSMISSION, FUNCTION AND RESET CROWN SAVER
16:45	18:45	2.00	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR- 196m TO 201m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	19:15	0.25	19.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-201m TO 202m
19:15	19:30	0.25	19.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN
19:30	19:45	0.25	19.75	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
19:45	21:15	1.50	21.25	6	TRIPS	TRIP OUT OF HOLE TO CHANGE BIT
21:15	23:15	2.00	23.25	6	TRIPS	TRIP IN HOLE , LAY DOWN MIDDLE STABILIZER
23:15	00:00	0.75	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FROM 202m TO 203m

180.00mKB, 2/19/2010 08:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	08:00	180.00	1110.0	52	19.0	7.200
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.500	3.500	7.6	1.0	8.5	0.3	7.0
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
50		350.000	60.000	0.100	0.400	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
12.70	0.00	3.00		113.70

BHA #2, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
1	444.5mm, PS33, 6080265	0.40	-------	722	1.9

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5	179.57	237.0

String Components

HUGHES PS33, NB STAB, SHOCK SUB, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Lay down middle stab 100 mm under gauge

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
SAWDUST	6.93	4.0
GEL	11.81	10.0
CAUSTIC	47.91	1.0
BARAZAN	184.89	1.0
PAC R	157.31	1.0
SAWDUST	6.93	4.0
GEL	11.81	10.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MOUSEHOLE CONNECTION W/DC
00:00	Safety Meeting	ROAD CONDITIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	161.00	186.00	151.00	71.00	2.3		14	130	10,100			5,00...
Original Hole	202.00	202.00	151.00	77.75	0.0		14	135	9,200			7,00...

Daily Drilling

Report for: 2/18/2010
Report #: 6.0, DFS: 3.06
Depth Progress: 41.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
Over cast	-1	FAIR	Good

Operations at Report Time	Operations Next Report Period
Drilling ahead at 180m	Drilling ahead

Operations Summary

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
42,350.00	2,122,250.00
Daily Mud Cost	**Mud Additive Cost To Date**
1,483.99	5,285.60
Depth Start (mKB)	**Depth End (mKB)**
120.00	161.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:45	0.75	0.75	6	TRIPS	CONT TO TRIP IN HOLE
00:45	01:00	0.25	1.00	7	RIG SERVICE	RIG SERVICE , GREASE ALL MOVING PARTS AND CHECK OIL LEVELS
01:00	06:45	5.75	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 120m - 130m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 130m - 132m
08:00	12:00	4.00	12.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR 132m - 139m
12:00	14:00	2.00	14.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-139m TO 141m
14:00	14:15	0.25	14.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS, CHECKED OIL LEVELS
14:15	14:30	0.25	14.50	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
14:30	17:30	3.00	17.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE FR-141m TO 148m
17:30	17:45	0.25	17.75	25		CHANGE OUT HEAD IN PUMP#1 MIDDLE
17:45	18:45	1.00	18.75	2	DRILL ACTUAL	DRILL 444mm HOLE FR-148m TO 150m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	21:30	2.50	21.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 150m - 155m
21:30	21:45	0.25	21.75	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEY @ 138m WAS 1.67 DEG
21:45	00:00	2.25	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 155m - 161m

180.00mKB, 2/18/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	180.00	1070.0	55	17.0	7.700
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
2.000	5.000	8.2	1.0	8.5	0.3	4.0
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**
40	0.000	250.000	80.000	0.200	0.500	

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)
0.00		1.30		105.00

BHA #2, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
1	444.5mm, PS33, 6080265	0.40	-------	722	1.9

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5	179.57	237.0

String Components

HUGHES PS33, NB STAB, SHOCK SUB, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Lay down middle stab 100 mm under gauge

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	120.00	139.00	104.00	49.50	1.8		15	80	8,400			5,00...
Original Hole	139.00	155.00	120.00	57.32	2.0		12	80	9,140			5,00...
Original Hole	155.00	161.00	126.00	60.25	2.0		14	130	9,140			5,00...

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	75	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
SAWDUST	6.93	4.0
GEL	11.81	50.0
CAUSTIC	47.91	1.0
EZ MUD DP	231.78	2.0
GEL	11.81	30.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	WIRELINE SURVEYS
00:00	Safety Meeting	LOADER OPERATIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 2/17/2010
Report #: 5.0, DFS: 2.06
Depth Progress: 32.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
		FAIR	

Operations at Report Time	Operations Next Report Period

Operations Summary

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
73,350.00	2,079,900.00
Daily Mud Cost	**Mud Additive Cost To Date**
2,345.97	3,801.61
Depth Start (mKB)	**Depth End (mKB)**
88.00	120.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:45	4.75	4.75	2	DRILL ACTUAL	CONT TO DRILL 444mm HOLE FR 88m TO 98m
04:45	05:00	0.25	5.00	10	DEV. SURVEY	WIRELINE SURVEY @ 97m 1.5 deg
05:00	05:15	0.25	5.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS
05:15	06:45	1.50	6.75	2	DRILL ACTUAL	CONT TO DRILL FR 98m TO 102m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HAND OVER MEETING
07:00	08:00	1.00	8.00	2	DRILL ACTUAL	CONT TO DRILL FR 102m TO 105m
08:00	12:00	4.00	12.00	2	DRILL ACTUAL	DRILL 444MM HOLE FR-105m TO 110m
12:00	14:00	2.00	14.00	2	DRILL ACTUAL	DRILL 444mm HOLE FR-110m TO 112m
14:00	14:15	0.25	14.25	7	RIG SERVICE	RIG SERVICE GREASE ALL MOVING PARTS, CHECK OIL LEVELS, FUNCTION ELECTRIC CROWN SAVER
14:15	14:30	0.25	14.50	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
14:30	18:45	4.25	18.75	2	DRILL ACTUAL	DRILL 444mm HOLE FR-112m TO 117m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	21:15	2.25	21.25	2	DRILL ACTUAL	DRILL 444mm HOLE FR-117m TO 120m
21:15	22:30	1.25	22.50	6	TRIPS	TRIP OUT OF HOLE TO CHANGE AROUND BHA AND PICK UP ANOTHER STABILIZER
22:30	00:00	1.50	24.00	6	TRIPS	CHANGE AROUND BHA AND TRIP IN HOLE

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #2, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
1	444.5mm, PS33, 6080265	0.40	-------	722	1.9

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5	179.57	237.0

String Components

HUGHES PS33, NB STAB, SHOCK SUB, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Lay down middle stab 100 mm under gauge

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	88.00	110.00	75.00	30.25	2.0		8	140	6,200			3,80...
Original Hole	110.00	120.00	85.00	38.75	1.2		7	110	7,300			3,80...

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
GEL	11.81	38.0
EZ MUD DP	231.78	1.0
CAUSTIC	47.91	1.0
PAC R	157.31	2.0
GEL	11.81	97.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DRIVING TO AND FROM LOCATION
00:00	Safety Meeting	LOCK-OUT PROCEDURES

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Daily Drilling

Report for: 2/16/2010
Report #: 4.0, DFS: 1.06
Depth Progress: 49.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
		FAIR	

Operations at Report Time	Operations Next Report Period

Operations Summary

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
73,550.00	2,006,550.00
Daily Mud Cost	**Mud Additive Cost To Date**
514.59	1,455.64
Depth Start (mKB)	**Depth End (mKB)**
24.00	88.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:30	1.50	1.50	2	DRILL ACTUAL	CONT TO DRILL 444mm HOLE FR 24m TO 27m
01:30	01:45	0.25	1.75	21	SAFETY MEETING	SAFETY MEETING/WIRELINE SURVEY/REVIEWED JTA
01:45	02:00	0.25	2.00	10	DEV. SURVEY	WIRELINE SURVEY @ 19m .07 DEG
02:00	02:15	0.25	2.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/CHECK DRIVE LINE BOLTS
02:15	07:15	5.00	7.25	2	DRILL ACTUAL	CONT TO DRILL 444mm HOLE FR 27m TO 40M
07:15	07:45	0.50	7.75	25		CONNECTIONS WIT 9 INCH DRILL COLLARS
07:45	08:00	0.25	8.00	21	SAFETY MEETING	CREW HAND OVER MEETING
08:00	08:15	0.25	8.25	2	DRILL ACTUAL	DRILL 444mm FR- 40M TO 42M
08:15	08:30	0.25	8.50	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
08:30	10:30	2.00	10.50	2	DRILL ACTUAL	DRILL FR/42M TO 55M
10:30	10:45	0.25	10.75	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
10:45	11:15	0.50	11.25	6	TRIPS	TRIP OUT OF HOLE TO CHANGE OUT DRILL ASSEMBLY
11:15	11:30	0.25	11.50	21	SAFETY MEETING	SAFETY MEETING / CHANGE IN BHA PLAN /
11:30	12:00	0.50	12.00	6	TRIPS	PICK UP BHA
12:00	14:15	2.25	14.25	6	TRIPS	CONTINUE TO MAKE UP BHA
14:15	16:00	1.75	16.00	2	DRILL ACTUAL	DRILL 444mm HOLE FR/55 TO 62M
16:00	16:15	0.25	16.25	7	RIG SERVICE	RIG SERVICE,GREASED ALL MOVING COMPONENTS,CHECKED ALL OILS,CHANGED OUT ROTARY TORQUE PASON CORD AND RECALIBRATED
16:15	18:45	2.50	18.75	2	DRILL ACTUAL	DRILL 444mm FR/ 62M TO 75M
18:45	19:15	0.50	19.25	10	DEV. SURVEY	WIRELINE SURVEY AND CONNECTION ACCUM
19:15	19:30	0.25	19.50	21	SAFETY MEETING	PRE-JOB SAFETY MEETING CREW HANDOVER
19:30	00:00	4.50	24.00	2	DRILL ACTUAL	CONT TO DRILL 444mm HOLE FR 75m TO 88m

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #2, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
1	444.5mm, PS33, 6080265	0.40	-------	722	1.9

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5	179.57	237.0

String Components

HUGHES PS33, NB STAB, SHOCK SUB, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Lay down middle stab 100 mm under gauge

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	83	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	80	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
PAC R	157.31	1.0
SAWDUST	6.93	4.0
BARATHIN	82.39	4.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	PICKING UP 8 IN. DRILL COLLARS FROM V-DOOR
00:00	Safety Meeting	DRIVING HOME ON LONG CHANGE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	24.00	40.00	20.00	10.25	1.8		8	140	3,431			1,70...
Original Hole	55.00	88.00	53.00	19.00	3.8		8	150	4,100			4,80...

WellView

Daily Drilling

Report for: 2/15/2010
Report #: 3.0, DFS: 0.06
Depth Progress: 4.00

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
		FAIR	

Operations at Report Time	Operations Next Report Period

Operations Summary

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
70,650.00	1,933,000.00
Daily Mud Cost	**Mud Additive Cost To Date**
941.05	941.05
Depth Start (mKB)	**Depth End (mKB)**
20.00	24.00
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:15	0.25	0.25	21	SAFETY MEETING	SAFETY MEETING/INSTALLING FLOW LINE
00:15	00:45	0.50	0.75	1	RIGUP & TEARDOWN	INSTALL FLOW LINE
00:45	05:30	4.75	5.50	1	RIGUP & TEARDOWN	CONT TO WORK ON PUMPS 1 AND 2/EXHAUST/DRIVE LINES/BOLTING DOWN PUMPS/CONNECTING HOSES/GUARDS
05:30	07:30	2.00	7.50	1	RIGUP & TEARDOWN	INSTALL BLEEDER LINES AND KICKER HOSE
07:30	08:00	0.50	8.00	21	SAFETY MEETING	CREW HAND OVER MEETING REVIEWED SAFTEY ALERT BULLETIN W/RIG MANAGER.EMERGENCY RESPONSE PROCEDURES,STEAM BURNS MINOR CUTS,REPORTING MINOR INJURIES.
08:00	12:00	4.00	12.00	1	RIGUP & TEARDOWN	CONTINUE RIG UP AIR LINES POWER TO PUMP HOUSE #1,#2 ,FUEL LINES,PASON LINES RIG UP BATTERIES IN PUMP HOUSE #1,#2,WELD ON 2 IN. DRAIN VALVE ON CONDUCTOR,UNLOAD SURFACE CASING,LOAD UP MOVING TRUCKS,INSTALL SHAKER SCREENS.
12:00	14:00	2.00	14.00	1	RIGUP & TEARDOWN	RIG UP CONTINUE RIG UP CENTRFUGE
14:00	18:45	4.75	18.75	1	RIGUP & TEARDOWN	RIG UP RAISE DEGASSER TANK,RIG UP CHEMICAL BBL,MIX MUD PRODUCTS,RIG UP HOLE FILL,UNLOAD DOWNHOLE TOOLS,STRAP I.D. O.D. DOWN HOLE TOOLS
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	19:15	0.25	19.25	21	SAFETY MEETING	SAFETY MEETING/PICKING UP BHA
19:15	20:30	1.25	20.50	6	TRIPS	PICK UP BHA
20:30	21:00	0.50	21.00	1	RIGUP & TEARDOWN	LEVEL RIG
21:00	21:30	0.50	21.50	21	SAFETY MEETING	PRE SPUD INSPECTION
21:30	22:00	0.50	22.00	21	SAFETY MEETING	SAFETY MEETING/PRE SPUD MEETING
22:00	22:30	0.50	22.50	25		PICK UP KELLY AND INSTALL SUBS/PREPARE TO SPUD
22:30	00:00	1.50	24.00	2	DRILL ACTUAL	DRILL 444mm HOLE FR 0 TO 24m

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

BHA #2, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
1	444.5mm, PS33, 6080265	0.40	-------	722	1.9

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5	179.57	237.0

String Components

HUGHES PS33, NB STAB, SHOCK SUB, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Lay down middle stab 100 mm under gauge

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	85	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
EZ MUD DP	231.78	1.0
CAUSTIC	47.91	1.0
GEL	11.81	56.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	REVIEW SAFETY ALERTS
00:00	Safety Meeting	WIRELINE SURVEY

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Well Name: NALCOR ET AL. SEAMUS # 1.

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	20.00	24.00	4.00	1.50	2.7		5	80	1,000			

WellView

Daily Drilling

Report for: 2/14/2010
Report #: 2.0, DFS: -0.94
Depth Progress:

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
		FAIR	

Operations at Report Time	Operations Next Report Period

Operations Summary

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
44,650.00	1,862,350.00
Daily Mud Cost	**Mud Additive Cost To Date**
Depth Start (mKB)	**Depth End (mKB)**
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:45	2.75	2.75	1	RIGUP & TEARDOWN	CONT MAKING UP KELLY TO SWIVEL/TORQUE UP ALL BREAKS/INSTALL KELLY HOSE/PICK UP MOUSEHOLE/INSTALL BAILS AND ELAVATORS
02:45	03:00	0.25	3.00	21	SAFETY MEETING	SAFETY MEETING/RIG SERVICE/REVIEWED JTA#7-1
03:00	03:30	0.50	3.50	7	RIG SERVICE	RIG SERVICE/GREASE BLOCKS/WASHPIPE/TONGS/ DRIVELINES/DRAWORKS/BRAKE HANDLE/4 AND 2 INCH VALVES/CHECK ALL OILS
03:30	04:00	0.50	4.00	1	RIGUP & TEARDOWN	RIG IN HORN FOR PASON H2S ALARM
04:00	07:30	3.50	7.50	1	RIGUP & TEARDOWN	ORGANIZE TOOLS/TIDY UP AROUND RIG/CLEAN RIG/WAIT ON PUMP HOUSES
07:30	08:00	0.50	8.00	21	SAFETY MEETING	CREW HAND OVER MEETING
08:00	09:00	1.00	9.00	1	RIGUP & TEARDOWN	INSTALL SURVEY LINE
09:00	10:15	1.25	10.25	1	RIGUP & TEARDOWN	SKID OVER DEGASSER & PLACE,GREASE CATWALK,GREASE TONG LINE SHEAVES
10:15	12:00	1.75	12.00	1	RIGUP & TEARDOWN	UNLOAD PUMP #1 AND SPOT IN PLACE AND INSTALL PUMP MOTOR
12:00	17:00	5.00	17.00	1	RIGUP & TEARDOWN	RIG UP CONTINUE SPOT#1 PUMP INSTALL MOTOR AND PUMP#2 AND INSTALL MOTOR.
17:00	18:00	1.00	18.00	1	RIGUP & TEARDOWN	RIG UP CONTINUE RIG UP CENTRIFUGE
18:00	18:45	0.75	18.75	1	RIGUP & TEARDOWN	RIG UP SPOT MANIFOLD AND DEGASSER TANK WITH TRUCKS
18:45	19:00	0.25	19.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
19:00	20:00	1.00	20.00	1	RIGUP & TEARDOWN	CONTINUE RIG UP POWER CORDS,EXHAUST PUMP HOUSE#1 AND PUMP#2
20:00	00:00	4.00	24.00	25		CUT AND WELD ON CONDUCTOR

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	0	

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No	0	
Pres (kPa)	**Slow Spd**	**Strokes (s...**	**Eff (%)**
	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	LOADER OPERATION
00:00	Safety Meeting	INSTALLING FLOW LINE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

WellView

Daily Drilling

Report for: 2/13/2010
Report #: 1.0, DFS: -1.94
Depth Progress:

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	State/Province
n/a	49:58:48.40N/057:41:59.1...	3-103	Newfoundland
Spud Date	**Rig Release Date**	**Ground Elevation (m)**	**KB-Ground Distance (m)**
2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM	20.70	6.30
Weather	**Temperature (°C)**	**Road Condition**	**Hole Condition**
DRIZZLE / MIST	0	FAIR	
Operations at Report Time		**Operations Next Report Period**	
Rig Up		Rig Up	

Operations Summary

Time log comments:
PRE-JOB SAFETY MEETING W/CREW ON SITE SUPERVISORS PRIOR TO RAISING TOP SECTION
CONT RIG UP PRE,RAISING INSPECTION PRIOR TO RAISING TOP SECTION.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:00	2.00	2.00	1	RIGUP & TEARDOWN	GET MONKEY BOARD READY FOR LIFTING OF TOP SECTION/ESCAPE LINE/FALL DECENT/FALL ARREST AND CABLE
02:00	03:30	1.50	3.50	1	RIGUP & TEARDOWN	RIG IN NEW TUGGER LINE
03:30	04:30	1.00	4.50	1	RIGUP & TEARDOWN	PREPARE DERRICK FOR RAISING OF TOP SECTION
04:30	05:00	0.50	5.00	1	RIGUP & TEARDOWN	INSTALL PIT BULL AND AUTO DIGGER
05:00	07:00	2.00	7.00	1	RIGUP & TEARDOWN	ORGANIZE TOOLS/CLEAN UP RIG
07:00	07:30	0.50	7.50	21	SAFETY MEETING	CREW HAND OVER MEETING
07:30	08:00	0.50	8.00	1	RIGUP & TEARDOWN	RIG UP COUNTER WEIGHTS FOR LIFTING OF TOP SECTION
08:00	09:00	1.00	9.00	1	RIGUP & TEARDOWN	PRE TOUR SAFETY MEETING PRIOR TO RAISING TOP SECTION W/CREW ON SITE SUPERVISORS
09:00	09:30	0.50	9.50	1	RIGUP & TEARDOWN	CONTINUE RIG UP PRE-RAISING INSPECTION
09:30	10:30	1.00	10.50	1	RIGUP & TEARDOWN	RAISE ROOF MUD TANK 2 INSTALL ROOF ON MUD TANK 1
10:30	12:00	1.50	12.00	1	RIGUP & TEARDOWN	RIG UP CENTRIFUGE WITH CENTRIFUGE HAND UNLOAD MUD PRODUCTS
12:00	00:00	-12.00	0.00	IN...		

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	**Gel 10 min (Pa)**	**Filtrate (mL/30min)**	**Filter Cake (mm)**	**pH**	**Sand (%)**	**Solids (%)**
MBT (kg/m³)	**Alkalinity (mL/mL)**	**Chlorides (mg/L)**	**Calcium (mg/L)**	**Pf (mL/mL)**	**Pm (mL/mL)**	**Gel 30 min (Pa)**

Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...

Nozzles (mm)	String Length (m)	OD (mm)

String Components

Comment

Wellbore	Start (mKB)	End (mKB)	Cum Depth (m)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq

AFE Number	Total AFE Amount
6220 1001	7,957,400.00
Daily Cost Total	**Cum Cost To Date**
1,817,700.00	1,817,700.00
Daily Mud Cost	**Mud Additive Cost To Date**
Depth Start (mKB)	**Depth End (mKB)**
Target Formation	**Target Depth (mKB)**
Berry Head	3,177.60
Last Casing String	

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

Contractor	Rig Number
STONEHAM DRILLING INC.	11
Rig Supervisor	**Phone Mobile**
Martin Gould	709 765 0635

1, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
1		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

2, GARDNER DENVER, PZ-11

Pump Number	Pwr (kW)	Rod Dia (mm)
2		
Liner Size (mm)	**Stroke (mm)**	**Vol/Stk OR (m³/...**
165.0	279.0	0.018

Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
	No		

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RAISING DERRICK
00:00	Safety Meeting	RIG SERVICE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	70.00

Appendix G

Casing & Cementing Reports

Casing

Well Name: NALCOR ET AL. SEAMUS # 1. **Surface**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Wellbore

Wellbore Name	Kick Off Depth (mKB)
Original Hole	70.00

Section	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Surface	444.5	0.00	601.20	2/15/2010	3/5/2010

Wellhead

Type	Install Date	Service	Comment
SLIP LOCK	3/6/2010		PRESSURE TESTED TO 6500 kpa

Wellhead Components

Description	Make	Model	SN	Top WP (kPa)

Casing

Casing Description	Set Depth (mKB)	Run Date	Set Tension (daN)
Surface	601.00	3/8/2010	60,000.0

Centralizers	Scratchers
20	

Casing Components

Item Description	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btm (mKB)	Mk-up Tq (daN-m)	Class	Max OD (mm)	ID (mm)
Casing Joints	339.7	81.105	J-55	BTC	44	580.38	6.00	586.38				320.4
Float Collar	339.7	81.105	J-55	BTC	1	0.51	586.38	586.89				320.4
Casing Joints	339.7	81.105	J-55	BTC	1	13.54	586.89	600.43				320.4
Shoe	339.7	81.105	J-55	BTC	1	0.57	600.43	601.00				320.4

Casing

Well Name: NALCOR ET AL. SEAMUS # 1. **Intermediate**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Wellbore

Wellbore Name	Kick Off Depth (mKB)
Original Hole	70.00

Section	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Surface	444.5	0.00	601.20	2/15/2010	3/5/2010
Intermediate	311.0	601.00	2,292.00	3/9/2010	4/19/2010

Wellhead

Type	Install Date	Service	Comment
SLIP LOCK	3/6/2010		PRESSURE TESTED TO 6500 kpa

Wellhead Components

Description	Make	Model	SN	Top WP (kPa)

Casing

Casing Description	Set Depth (mKB)	Run Date	Set Tension (daN)
Intermediate	2,292.50	4/24/2010	

Centralizers	Scratchers

Casing Components

Item Description	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btm (mKB)	Mk-up Tq (daN-m)	Class	Max OD (mm)	ID (mm)
Casing Joints	244.5	64.735	L-80	BTC	111	1,527.39	6.00	1,533.39				222.4
Marker Joint	244.5	64.735	L-80	BTC	1	6.53	1,533.39	1,539.92				222.4
Casing Joints	244.5	64.735	L-80	BTC	52	723.55	1,539.92	2,263.47				222.4
Float Collor	244.5	64.735	L-80	BTC	1	0.63	2,263.47	2,264.10				222.4
Casing Joints	244.5	64.735	L-80	BTC	1	13.88	2,264.10	2,277.98				222.4
Casing Joints	244.5	64.735	L-80	BTC	1	13.88	2,277.98	2,291.86				222.4
Float Shoe	244.5	64.735	L-80	BTC	1	0.64	2,291.86	2,292.50				222.4

Cement

Well Name: NALCOR ET AL. SEAMUS # 1. **Surface**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Cement Details

Description	Cementing Start Date	Cementing End Date	Wellbore Name
Surface	3/6/2010 03:45	3/6/2010 06:15	Original Hole

Comment: 8 M3 Good cement returnes.Stopped .6 M3 short on displacement due to flow line blocked with thick cement.

Cement Stages

Stage # 1

Description	Objective	Top (mKB)	Bottom (mKB)	Full Return?	Cmnt Rtrn (m³)	Top Plug?	Bottom Plug?
		6.00	601.00	Yes	8.00	No	Yes

Initial Pump Rate (m³/min)	Final Pump Rate (m³/min)	Q (avg) (m³/min)	P (final) (kPa)	P (bump) (kPa)	Recip?	Stroke (m)	Rotated?	Pipe RPM (rpm)
1.000	0.500	0.900	7,000		No	2.00	No	

Depth tagged (mKB)	Tag Method	Depth Plug Drilled Out To (mKB)	Drill Out Diameter (mm)

Comment:

Cement Fluids & Additives

Fluid

Fluid Type	Fluid Description	Estimated Top (mKB)	Estimated Bottom (mKB)	Amount (1000kg)	Class	Volume Pumped (m³)
Lead	neet Cement	6.00	601.00	86.5	A	46.70

Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)
0.770			1878.0		2.50	

Additives

Additive	Type	Concentration	Conc Unit label

Cement

Well Name: NALCOR ET AL. SEAMUS # 1. **Intermediate Casing Cement**

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Cement Details

Description	Cementing Start Date	Cementing End Date	Wellbore Name
Intermediate Casing Cement	4/24/2010 19:00	4/24/2010 23:15	Original Hole

Comment: 34m3 Good cements returns

Cement Stages

Stage # 1

Description	Objective	Top (mKB)	Bottom (mKB)	Full Return?	Cmnt Rtrn (m³)	Top Plug?	Bottom Plug?
Cemented with 100 T "G" Cement	Cement 244.5mm casing	6.00	2,296.00	Yes	34.50	Yes	Yes

Initial Pump Rate (m³/min)	Final Pump Rate (m³/min)	Q (avg) (m³/min)	P (final) (kPa)	P (bump) (kPa)	Recip?	Stroke (m)	Rotated?	Pipe RPM (rpm)
1.000	1.000	1.000	20	23,000	No		No	

Depth tagged (mKB)	Tag Method	Depth Plug Drilled Out To (mKB)	Drill Out Diameter (mm)

Comment:
Pump 1.10 Ton Scavenger fill-light-2-100 cement blend. Plus 1.1 % R3
Pump 25.82 Ton fill cement fill light 2-100 cement blend Plus 1.1% R3
Pump 100 Ton tail cement class G oil well bulk Plus 0.4% < 0.30 %R3

Cement Fluids & Additives

Fluid

Fluid Type	Fluid Description	Estimated Top (mKB)	Estimated Bottom (mKB)	Amount (1000kg)	Class	Volume Pumped (m³)
Preflush				1.1	fill-light	3.00

Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)
2.730			1250.0			

Additives

Additive	Type	Concentration	Conc Unit label

Stage # 2

Description	Objective	Top (mKB)	Bottom (mKB)	Full Return?	Cmnt Rtrn (m³)	Top Plug?	Bottom Plug?
				No		Yes	No

Initial Pump Rate (m³/min)	Final Pump Rate (m³/min)	Q (avg) (m³/min)	P (final) (kPa)	P (bump) (kPa)	Recip?	Stroke (m)	Rotated?	Pipe RPM (rpm)
					No		No	

Depth tagged (mKB)	Tag Method	Depth Plug Drilled Out To (mKB)	Drill Out Diameter (mm)

Comment:

Cement Fluids & Additives

Fluid

Fluid Type	Fluid Description	Estimated Top (mKB)	Estimated Bottom (mKB)	Amount (1000kg)	Class	Volume Pumped (m³)

Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)

Additives

Additive	Type	Concentration	Conc Unit label

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Cement Details

Description	Cementing Start Date	Cementing End Date	Wellbore Name
Cement Plug	5/19/2010 00:00	5/19/2010 01:15	Original Hole

Comment: Placed 50 M cement plug on bottom

Cement Stages

Stage # 1

Description	Objective	Top (mKB)	Bottom (mKB)	Full Return?	Cmnt Rtrn (m³)	Top Plug?	Bottom Plug?
Cement Plug		3,110.00	3,160.00	Yes		No	No

Initial Pump Rate (m³/min)	Final Pump Rate (m³/min)	Q (avg) (m³/min)	P (final) (kPa)	P (bump) (kPa)	Recip?	Stroke (m)	Rotated?	Pipe RPM (rpm)
0.800	0.800	0.800	3,000		No		No	

Depth tagged (mKB)	Tag Method	Depth Plug Drilled Out To (mKB)	Drill Out Diameter (mm)

Comment:

Cement Fluids & Additives

Fluid

Fluid Type	Fluid Description	Estimated Top (mKB)	Estimated Bottom (mKB)	Amount (1000kg)	Class	Volume Pumped (m³)
Lead	Cement	3,110.00	3,160.00	2.7	G	2.00

Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)
0.757			1901.0			

Additives

Additive	Type	Concentration	Conc Unit label

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Cement Details

Description	Cementing Start Date	Cementing End Date	Wellbore Name
Cement Plug	5/19/2010 04:55	5/19/2010 05:15	Original Hole

Comment: Tagged @ 2303 M.

Cement Stages

Stage # 1

Description	Objective	Top (mKB)	Bottom (mKB)	Full Return?	Cmnt Rtrn (m³)	Top Plug?	Bottom Plug?
Cement Plug	Suspension plug	2,303.00	2,142.00	Yes		No	No

Initial Pump Rate (m³/min)	Final Pump Rate (m³/min)	Q (avg) (m³/min)	P (final) (kPa)	P (bump) (kPa)	Recip?	Stroke (m)	Rotated?	Pipe RPM (rpm)
0.800	0.800	0.800	3,000	3,000	No		No	

Depth tagged (mKB)	Tag Method	Depth Plug Drilled Out To (mKB)	Drill Out Diameter (mm)
2,303.00	Drill pipe		

Comment:

Cement Fluids & Additives

Fluid

Fluid Type	Fluid Description	Estimated Top (mKB)	Estimated Bottom (mKB)	Amount (1000kg)	Class	Volume Pumped (m³)
Lead	Neet cement	2,242.00	2,342.00		G	5.30

Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)
0.757			1901.0			

Additives

Additive	Type	Concentration	Conc Unit label

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Cement Details

Description	Cementing Start Date	Cementing End Date	Wellbore Name
Cement Plug	5/19/2010 21:30	5/19/2010 21:45	Original Hole

Comment: Tagged @2213 m.

Cement Stages

Stage # 1

Description	Objective	Top (mKB)	Bottom (mKB)	Full Return?	Cmnt Rtrn (m³)	Top Plug?	Bottom Plug?
Cement Plug	plug	2,213.00	2,303.00	Yes		No	No

Initial Pump Rate (m³/min)	Final Pump Rate (m³/min)	Q (avg) (m³/min)	P (final) (kPa)	P (bump) (kPa)	Recip?	Stroke (m)	Rotated?	Pipe RPM (rpm)
0.800	0.800	0.800	3,000		No		No	

Depth tagged (mKB)	Tag Method	Depth Plug Drilled Out To (mKB)	Drill Out Diameter (mm)
2,213.00	Tagged		

Comment:

Cement Fluids & Additives

Fluid

Fluid Type	Fluid Description	Estimated Top (mKB)	Estimated Bottom (mKB)	Amount (1000kg)	Class	Volume Pumped (m³)
Lead	Neet cement	2,200.00	2,303.00		G	4.30

Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)
0.757			1901.0			

Additives

Additive	Type	Concentration	Conc Unit label

Appendix H

Bottomhole & Clean Out Assemblies

WellView

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #30, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
RR.28	0.24	HUGHES	GX-44DX	6059477	6-1-7-	-------

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	3,132.87						

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	3,132....
110	Drill pipe - Stands								3,016....	3,132....
4	HWDP(5.0 IN)-+	164.0							54.52	116.87
1	JARS-HYD/MECH	165.0							6.54	62.35
1	X/O	160.0							0.19	55.81
4	DC (6.50 IN)	167.0							54.46	55.62
1	BIT SUB	163.0							0.92	1.16

Drilling Parameters

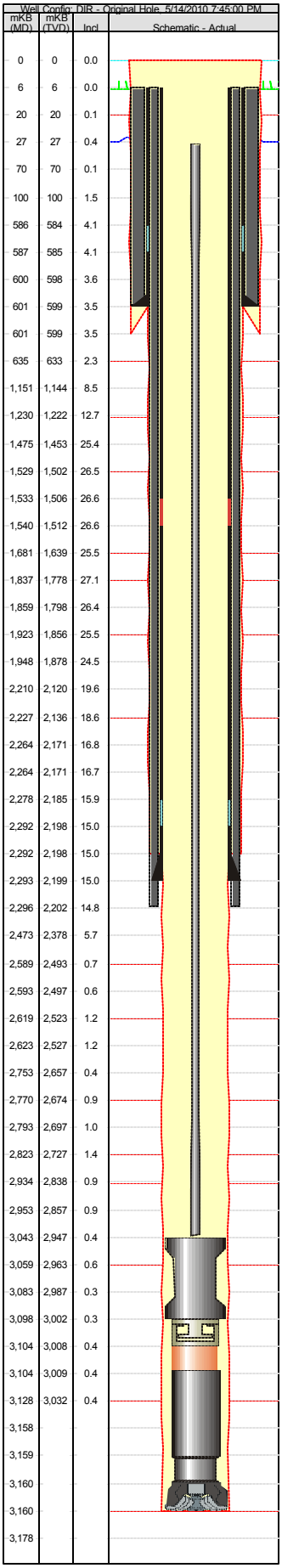
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #29, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
3,079.00	3,160.00	81.00	32.75	2.5

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
27	0.25	REED	R40ADH	KB1434	6-1-7-	4-7-LT-A-E-0.00-BT-TD

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	3,132.88	16	9	60	45		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	3,132....
110	Drill pipe - Stands								3,016....	3,132....
4	HWDP(5.0 IN)-+	164.0							54.52	116.88
1	JARS-HYD/MECH	165.0							6.54	62.36
1	X/O	160.0							0.19	55.82
4	DC (6.50 IN)	167.0							54.46	55.63
1	BIT SUB	163.0							0.92	1.17

Drilling Parameters

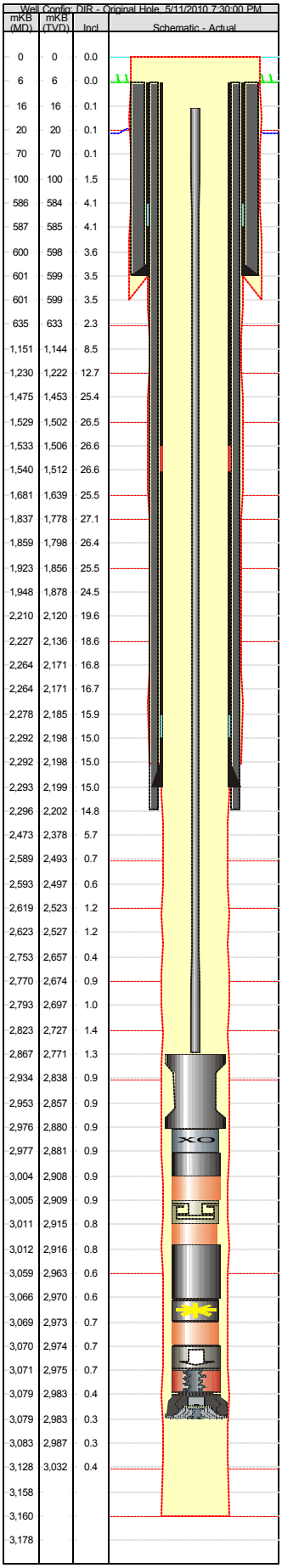
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	5/13/2010 00:00	5/13/2010 03:15	3.25	3,079.00	3,086.00	7.00	2.2	9	45		11,050
Original Hole	5/13/2010 12:00	5/13/2010 22:45	10.75	3,086.00	3,108.00	22.00	2.0	16	60		11,200
Original Hole	5/14/2010 00:00	5/14/2010 11:00	11.00	3,108.00	3,134.00	26.00	2.4	16	60		11,000
Original Hole	5/14/2010 12:00	5/14/2010 19:45	7.75	3,134.00	3,160.00	26.00	3.4	16	60		10,600

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
5/13/2010	3,099.00	Gel-Chem	1150.0	15.0	7.700	9.2		6.5
5/14/2010	3,155.00	Gel-Chem	1165.0	18.0	10.000	9.0		7.3

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



mKB (MD)	mKB (TVD)	Incl
0	0	0.0
6	6	0.0
16	16	0.1
20	20	0.1
70	70	0.1
100	100	1.5
586	584	4.1
587	585	4.1
600	598	3.6
601	599	3.5
601	599	3.5
635	633	2.3
1,151	1,144	8.5
1,230	1,222	12.7
1,475	1,453	25.4
1,529	1,502	26.5
1,533	1,506	26.6
1,540	1,512	26.6
1,681	1,639	25.5
1,837	1,778	27.1
1,859	1,798	26.4
1,923	1,856	25.5
1,948	1,878	24.5
2,210	2,120	19.6
2,227	2,136	18.6
2,264	2,171	16.8
2,264	2,171	16.7
2,278	2,185	15.9
2,292	2,198	15.0
2,292	2,198	15.0
2,293	2,199	15.0
2,296	2,202	14.8
2,473	2,378	5.7
2,589	2,493	0.7
2,593	2,497	0.6
2,619	2,523	1.2
2,623	2,527	1.2
2,753	2,657	0.4
2,770	2,674	0.9
2,793	2,697	1.0
2,823	2,727	1.4
2,867	2,771	1.3
2,934	2,838	0.9
2,953	2,857	0.9
2,976	2,880	0.9
2,977	2,881	0.9
3,004	2,908	0.9
3,005	2,909	0.9
3,011	2,915	0.8
3,012	2,916	0.8
3,059	2,963	0.6
3,066	2,970	0.6
3,069	2,973	0.7
3,070	2,974	0.7
3,071	2,975	0.7
3,079	2,983	0.4
3,079	2,983	0.3
3,083	2,987	0.3
3,128	3,032	0.4
3,158		
3,160		
3,178		

BHA #28, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,979.00	3,079.00	90.00	44.50	2.0

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
26	0.24	HUGHES	GX-44DX	6059477	6-1-7-	2-2-BT-H-E-0.00-WT-HR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	3,063.46	16	13	45	30		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	3,063....
104	Drill pipe - Stands								2,851....	3,063....
8	HWDP(5.0 IN)	164.0							109.02	212.00
1	XO	164.0							0.61	102.98
2	DC (6.50 IN)	167.0							27.28	102.37
1	X/O	167.0							0.82	75.09
1	JARS-HYD/MECH	165.0							6.54	74.27
1	X/O	160.0							0.19	67.73
4	DC (6.50 IN)	167.0							54.46	67.54
1	TELEDRIFT	165.0							2.94	13.08
1	X/O	165.0							0.99	10.14
1	FLOAT SUB	172.0							0.83	9.15
1	MOTOR LS	171.0							8.08	8.32

Drilling Parameters

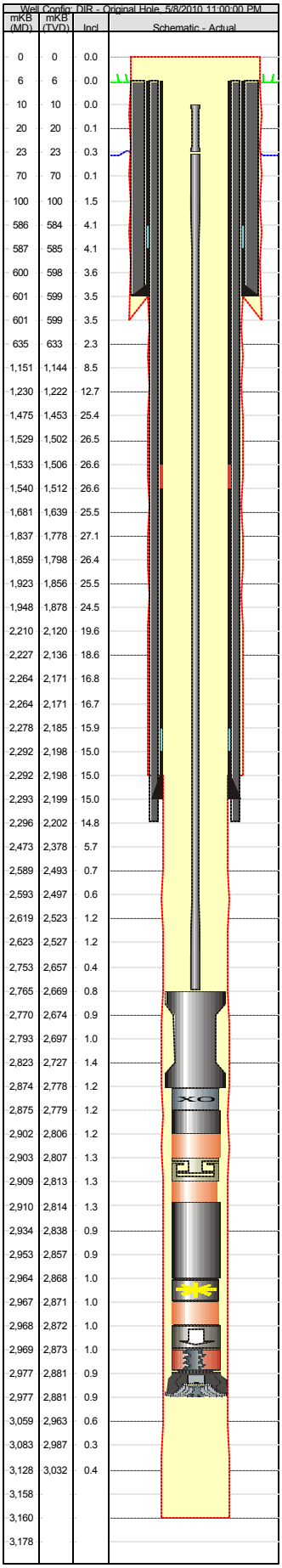
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	5/9/2010 12:00	5/9/2010 15:45	3.75	2,979.00	2,986.00	7.00	1.9	13	45		10,300
Original Hole	5/10/2010 00:00	5/10/2010 11:15	11.25	2,986.00	3,009.00	23.00	2.0	14	45		10,500
Original Hole	5/10/2010 12:00	5/10/2010 23:00	11.00	3,009.00	3,035.00	26.00	2.4	15	30		10,200
Original Hole	5/11/2010 00:00	5/11/2010 11:00	11.00	3,035.00	3,052.00	17.00	1.5	15	30		10,500
Original Hole	5/11/2010 12:00	5/11/2010 19:30	7.50	3,062.00	3,079.00	17.00	2.3	16	30		10,250

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
5/10/2010	3,002.00	Gel-Chem	1200.0	15.0	6.200	9.0		5.8
5/11/2010	3,075.00	Gel-Chem	1145.0	16.0	9.100			

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #27, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,924.00	2,977.00	53.00	18.75	2.8

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
25	0.24	REED	R40APDH	KB1429	6-1-7-	1-2-WT-S-E-0.00-WT-DTF

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,967.41	16	16	45	45		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.70	2,967....
100	Drill pipe - Stands								2,741....	2,953....
8	HWDP(5.0 IN)	164.0							109.02	212.00
1	XO	164.0							0.61	102.98
2	DC (6.50 IN)	167.0							27.28	102.37
1	X/O	167.0							0.82	75.09
1	JARS-HYD/MECH	165.0							6.54	74.27
1	X/O	160.0							0.19	67.73
4	DC (6.50 IN)	167.0							54.46	67.54
1	TELEDRIFT	165.0							2.94	13.08
1	X/O	165.0							0.99	10.14
1	FLOAT SUB	172.0							0.83	9.15
1	MOTOR LS	171.0							8.08	8.32

Drilling Parameters

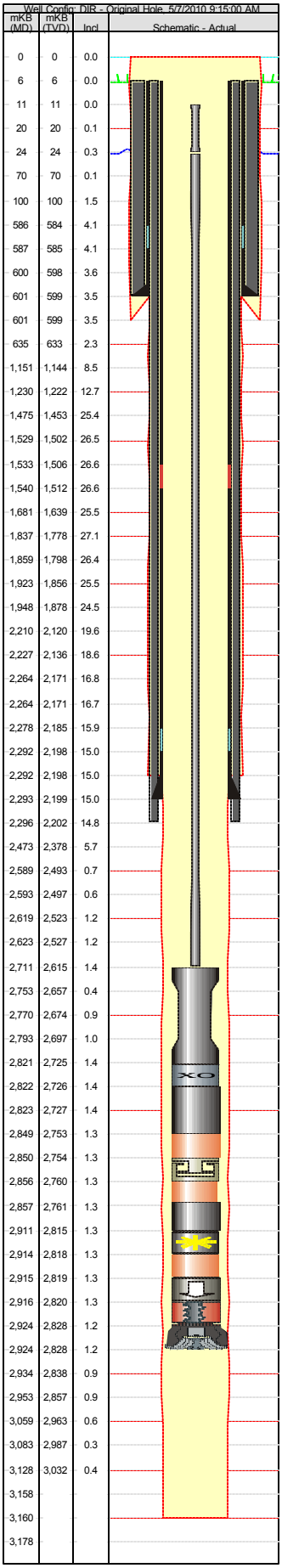
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	5/8/2010 00:00	5/8/2010 07:45	7.75	2,924.00	2,946.00	22.00	2.8	16	45		9,050
Original Hole	5/8/2010 12:00	5/8/2010 23:00	11.00	2,946.00	2,977.00	31.00	2.8	16	45		11,900

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
5/8/2010	2,960.00	Gel-Chem	1120.0	14.0	7.200	9.2	0.2	6.7

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #26, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,842.00	2,924.00	71.00	37.75	1.9

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
24	0.24	HUGHES	HR-044GDX	6061790	6-1-7-	8-8-LT-A-E-16.00-WT-TO

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,913.47	18	16	4045	35		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.77	2,913....
98	Drill pipe - Stands								2,686....	2,899....
12	HWDP(5.0 IN)	127.0							109.87	212.85
1	XO	164.0							0.61	102.98
2	DC (6.50 IN)	167.0							27.28	102.37
1	X/O	167.0							0.82	75.09
1	JARS-HYD/MECH	165.0							6.54	74.27
1	X/O	160.0							0.19	67.73
4	DC (6.50 IN)	167.0							54.46	67.54
1	TELEDRIFT	165.0							2.94	13.08
1	X/O	165.0							0.99	10.14
1	FLOAT SUB	172.0							0.83	9.15
1	MOTOR LS	171.0							8.08	8.32

Drilling Parameters

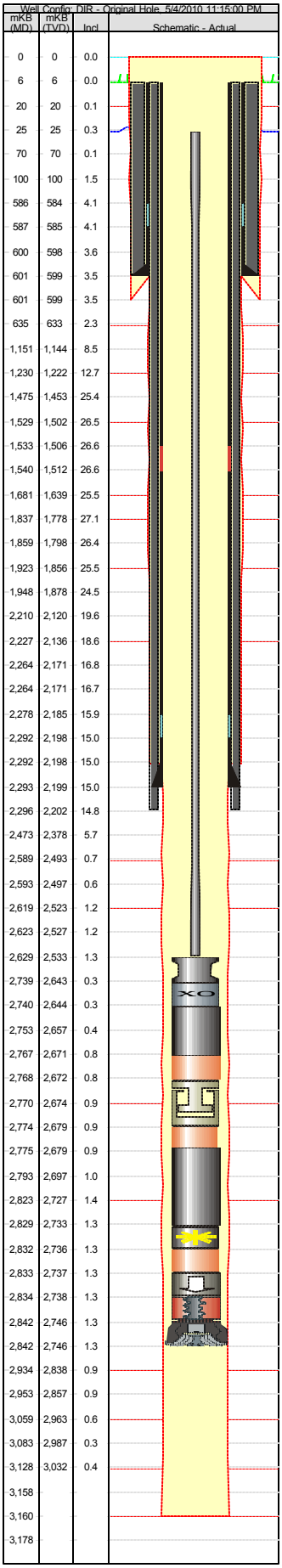
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	5/5/2010 12:00	5/5/2010 18:30	6.50	2,842.00	2,860.00	18.00	2.8	16	4045		8,950
Original Hole	5/6/2010 00:00	5/6/2010 10:45	10.75	2,860.00	2,885.00	25.00	2.3	16	45		9,000
Original Hole	5/6/2010 12:00	5/6/2010 23:15	11.25	2,896.00	2,913.00	17.00	1.5	18	40		10,000
Original Hole	5/7/2010 00:00	5/7/2010 09:15	9.25	2,913.00	2,924.00	11.00	1.2	18	35		9,000

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
5/6/2010	2,906.00	Gel-Chem	1115.0	13.0	7.200	9.0	0.3	6.4
5/7/2010	2,923.00	Gel-Chem	1120.0	13.0	7.200	9.0	0.3	6.7

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #25, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,811.00	2,842.00	29.00	19.25	1.5

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
23	0.24	HUGHES	GX-35DX	6075552	5-4-7-	8-8-LT-A-E-16.00-WT-TO

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,817.34	20	18	30	30		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	2,817....
95	Drill pipe - Stands								2,604....	2,817....
12	HWDP(5.0 IN)	127.0							109.87	212.85
1	XO	164.0							0.61	102.98
2	DC (6.50 IN)	167.0							27.28	102.37
1	X/O	167.0							0.82	75.09
1	JARS-HYD/MECH	165.0							6.54	74.27
1	X/O	160.0							0.19	67.73
4	DC (6.50 IN)	167.0							54.46	67.54
1	TELEDRIFT	165.0							2.94	13.08
1	X/O	165.0							0.99	10.14
1	FLOAT SUB	172.0							0.83	9.15
1	MOTOR LS	171.0							8.08	8.32

Drilling Parameters

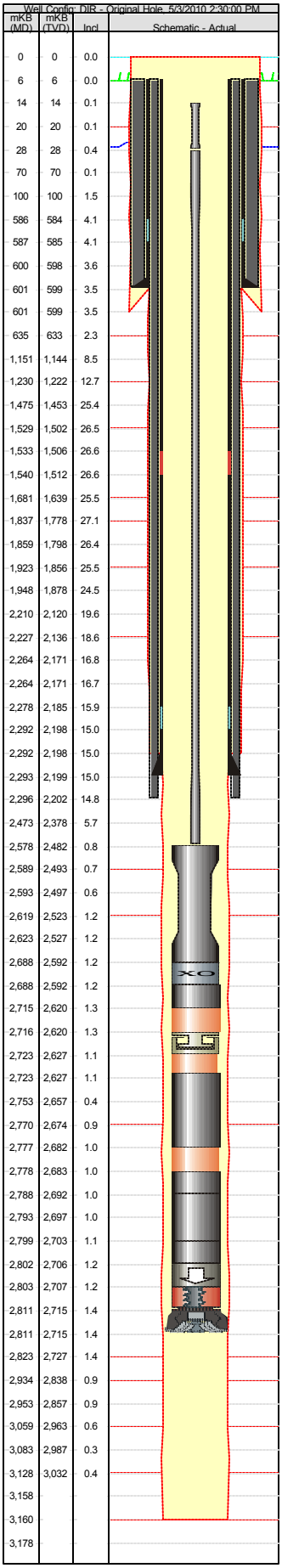
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	5/4/2010 00:00	5/4/2010 08:00	8.00	2,811.00	2,830.00	19.00	2.4	20	30		11,050
Original Hole	5/4/2010 12:00	5/4/2010 23:15	11.25	2,832.00	2,842.00	10.00	0.9	18	30		11,200

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
5/4/2010	2,837.00	Gel-Chem	1135.0	16.0	9.600	9.0	0.2	6.9

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #24, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,767.00	2,811.00	25.00	10.25	2.4

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
22	0.31	HUGHES	HCD506Z	7213261	5-4-7-	3-3-CT-A-X-0-WT-PR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,796.76	12	10	30	30		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.71	2,796....
93	Drill pipe - Stands								2,549....	2,783....
12	HWDP(5.0 IN)	127.0							109.87	233.35
1	XO	164.0							0.61	123.48
2	DC (6.50 IN)	167.0							27.28	122.87
1	X/O	167.0							0.82	95.59
1	JARS-HYD/MECH	165.0							6.54	94.77
1	X/O	160.0							0.19	88.23
4	DC (6.50 IN)	167.0							54.46	88.04
1	X/O	165.0							0.99	33.58
1	6.75\ NMDC	171.0							9.77	32.59
1	6.75\ NMDC W/MWD	171.0							10.69	22.82
1	DC-NM PONY	171.0							2.91	12.13
1	FLOAT SUB	172.0							0.83	9.22
1	MOTOR LS	171.0							8.08	8.39

Drilling Parameters

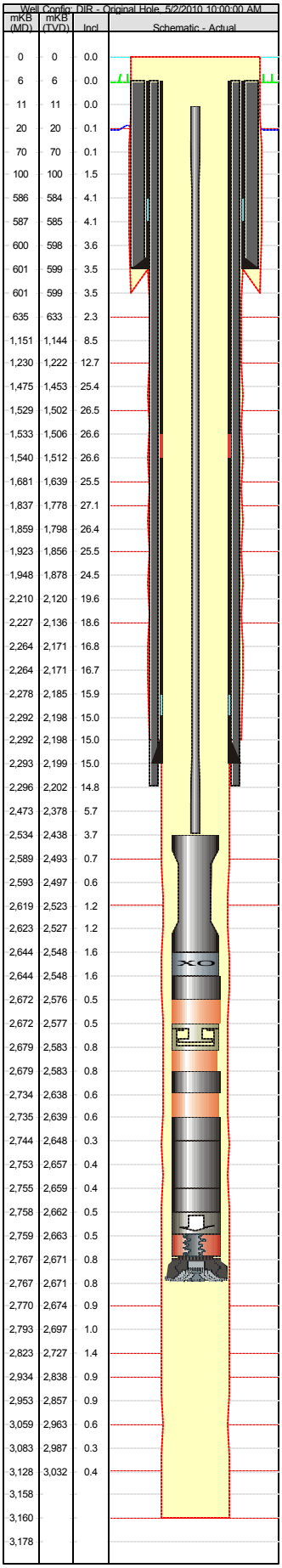
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	5/3/2010 00:00	5/3/2010 07:45	7.75	2,767.00	2,788.00	21.00	2.7	12	30		9,500
Original Hole	5/3/2010 12:00	5/3/2010 14:30	2.50	2,807.00	2,811.00	4.00	1.6	10	30		10,500

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #23, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,485.00	2,767.00	240.00	51.00	4.7

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
21	0.25	HUGHES	GX-30DX	6065998	5-3-7-	-------

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,755.58	20	20	30	30		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	2,755....
92	Drill pipe - Stands								2,522....	2,755....
12	HWDP(5.0 IN)	127.0							109.87	233.29
1	XO	164.0							0.61	123.42
2	DC (6.50 IN)	167.0							27.28	122.81
1	X/O	167.0							0.82	95.53
1	JARS-HYD/MECH	165.0							6.54	94.71
1	X/O	160.0							0.19	88.17
4	DC (6.50 IN)	167.0							54.46	87.98
1	X/O	165.0							0.99	33.52
1	6.75\ NMDC	171.0							9.77	32.53
1	6.75\ NMDC W/MWD	171.0							10.69	22.76
1	DC-NM PONY	171.0							2.91	12.07
1	FLOAT SUB	172.0							0.83	9.16
1	MOTOR LS	171.0							8.08	8.33

Drilling Parameters

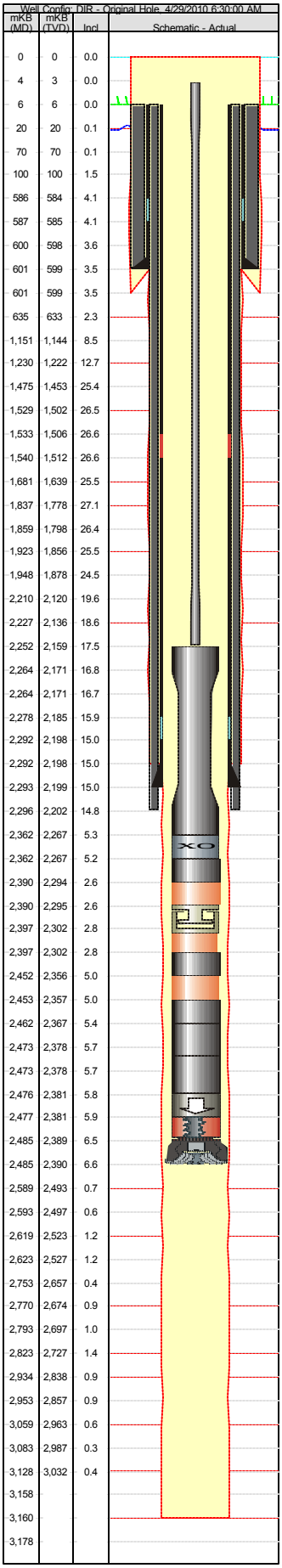
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	4/29/2010 15:00	4/29/2010 18:15	3.25	2,485.00	2,494.00	9.00	2.8	20	30		10,500
Original Hole	4/30/2010 00:00	4/30/2010 10:45	10.75	2,494.00	2,518.00	24.00	2.2	20	30		10,600
Original Hole	4/30/2010 12:00	4/30/2010 22:30	10.50	2,534.00	2,574.00	40.00	3.8	20	30		10,700
Original Hole	5/1/2010 00:00	5/1/2010 10:15	10.25	2,574.00	2,614.00	40.00	3.9	20	30		10,650
Original Hole	5/1/2010 12:00	5/1/2010 18:15	6.25	2,640.00	2,690.00	50.00	8.0	20	30		11,600
Original Hole	5/2/2010 00:00	5/2/2010 10:00	10.00	2,690.00	2,767.00	77.00	7.7	20	30		10,900

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
4/30/2010	2,553.00	Gel-Chem	1120.0		5.300	9.0	0.2	
5/1/2010	2,660.00	Gel-Chem	1125.0		6.500	9.0	0.2	
5/2/2010	2,767.00	Gel-Chem	1130.0		6.200	9.0	0.2	

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #22, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,298.00	2,485.00	321.00	56.25	5.7

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
20	0.24	HUGHES	GX35DX	5163640	5-3-7-	-------

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,481.48	20	12	30	25		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	2,481....
82	Drill pipe - Stands								2,248....	2,481....
12	HWDP(5.0 IN)	127.0							109.87	233.28
1	XO	164.0							0.61	123.41
2	DC (6.50 IN)	167.0							27.28	122.80
1	X/O	167.0							0.82	95.52
1	JARS-HYD/MECH	165.0							6.54	94.70
1	X/O	160.0							0.19	88.16
4	DC (6.50 IN)	167.0							54.46	87.97
1	X/O	165.0							0.99	33.51
1	6.75\ NMDC	171.0							9.77	32.52
1	6.75\ NMDC W/MWD	171.0							10.69	22.75
1	DC-NM PONY	171.0							2.91	12.06
1	FLOAT SUB	172.0							0.83	9.15
1	MOTOR LS	171.0							8.08	8.32

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	4/26/2010 12:00	4/26/2010 19:30	7.50	2,298.00	2,319.00	21.00	2.8	12	30		11,000
Original Hole	4/27/2010 00:00	4/27/2010 10:30	10.50	2,319.00	2,356.00	37.00	3.5	12	25		10,300
Original Hole	4/27/2010 12:00	4/27/2010 22:30	10.50	2,356.00	2,396.00	40.00	3.8	20	30		11,500
Original Hole	4/28/2010 00:00	4/28/2010 10:30	10.50	2,396.00	2,432.00	36.00	3.4	20	30		11,100
Original Hole	4/28/2010 12:00	4/28/2010 22:45	10.75	2,298.00	2,467.00	169.00	15.7	18	30		11,600
Original Hole	4/29/2010 00:00	4/29/2010 06:30	6.50	2,467.00	2,485.00	18.00	2.8	20	30		10,500

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
4/27/2010	2,381.00	Gel-Chem	1110.0	12.0	5.700	9.0	0.3	
4/28/2010	2,450.00	Gel-Chem	1110.0		5.300	9.0	0.3	
4/29/2010	2,485.00	Gel-Chem	1110.0		6.200	9.0	0.3	

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #21, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
RR	0.30	HUGHES	GX-35DX	6074846	5-3-7-	-------

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)

Drilling Parameters

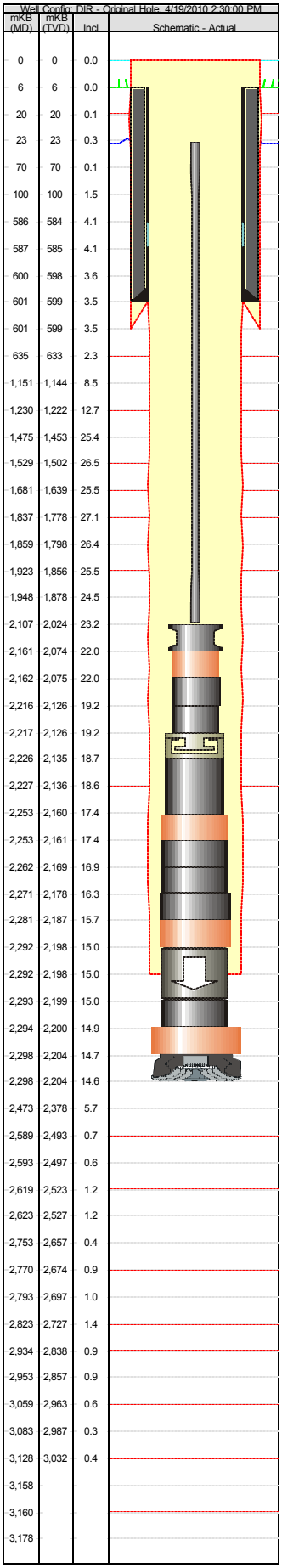
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #20, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,179.00	2,298.00	119.00	53.25	2.2

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
19	0.30	HUGHES	GX-30MDX	6074879	5-3-7-	1-1-WT-H-E-1.00-NO-TD

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,275.09	22	20	120	80		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	2,275....
76	Drill pipe - Stands								2,083....	2,275....
4	HWDP(5.0 IN)	139.0							54.51	191.45
1	X/O	164.0							0.61	136.94
4	DC (6.50 IN)	167.0							54.46	136.33
1	BELL SUB //X/O	161.0							0.71	81.87
1	JARS-HYD/MECH	203.0							8.93	81.16
2	DC (8.00 IN)	203.0							26.85	72.23
1	X/O	228.5							0.40	45.38
1	DC (9.00 IN)	228.5							9.15	44.98
1	DC (9.00 IN)	228.5							9.15	35.83
1	NMDC	244.5							9.47	26.68
1	SLIM PLUSE	244.5							10.67	17.21
1	FLOAT SUB	228.5							1.10	6.54
1	X/O SUB	228.0							0.91	5.44
1	POWER DRIVE 900	307.0							4.23	4.53

Drilling Parameters

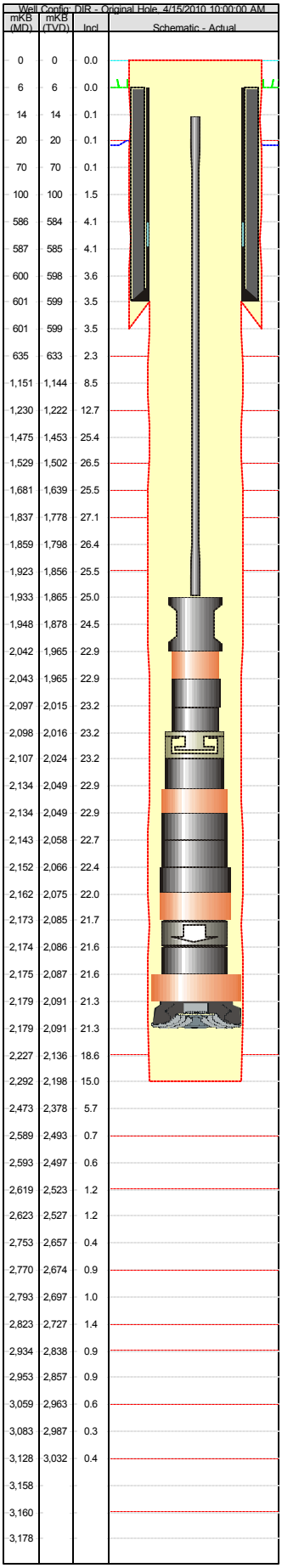
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	4/17/2010 00:00	4/17/2010 07:30	7.50	2,179.00	2,194.00	15.00	2.0	20	120		17,500
Original Hole	4/17/2010 12:00	4/17/2010 23:15	11.25	2,194.00	2,217.00	23.00	2.0	22	120		16,300
Original Hole	4/18/2010 00:00	4/18/2010 11:00	11.00	2,217.00	2,240.00	23.00	2.1	20	120		17,200
Original Hole	4/18/2010 12:00	4/18/2010 22:45	10.75	2,240.00	2,264.00	24.00	2.2	22	80		16,400
Original Hole	4/19/2010 00:00	4/19/2010 10:15	10.25	2,264.00	2,291.00	27.00	2.6	22	100		17,200
Original Hole	4/19/2010 12:00	4/19/2010 14:30	2.50	2,291.00	2,298.00	7.00	2.8	22	90		16,600

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
4/17/2010		Gel-Chem	1190.0	18.0	13.400	9.0	0.8	
4/18/2010	2,255.00	Gel-Chem	1210.0	19.0	13.400	9.0	1.0	
4/19/2010	2,298.00	Gel-Chem	1225.0	90.0	21.100	9.0	1.3	

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #19, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
2,044.00	2,179.00	127.00	66.75	1.9

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
18	0.30	HUGHES	GX-35DX	6074846	5-3-7-	2-2-FC-H-2-0.50-WT-HR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,164.76	23	19	160	120		

Comment

Worn heel row 67 hours,640000 k revs

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	2,164....
70	Drill pipe - Stands								1,918....	2,164....
8	HWDP(5.0 IN)	139.0							109.03	245.95
1	X/O	164.0							0.61	136.92
4	DC (6.50 IN)	167.0							54.46	136.31
1	BELL SUB //X/O	161.0							0.71	81.85
1	JARS-HYD/MECH	203.0							8.93	81.14
2	DC (8.00 IN)	203.0							26.85	72.21
1	X/O	228.5							0.40	45.36
1	DC (9.00 IN)	228.5							9.15	44.96
1	DC (9.00 IN)	228.5							9.15	35.81
1	NMDC	244.5							9.47	26.66
1	SLIM PLUSE	244.5							10.67	17.19
1	FLOAT SUB	228.5							1.10	6.52
1	X/O SUB	228.0							0.91	5.42
1	POWER DRIVE 900	307.0							4.21	4.51

Drilling Parameters

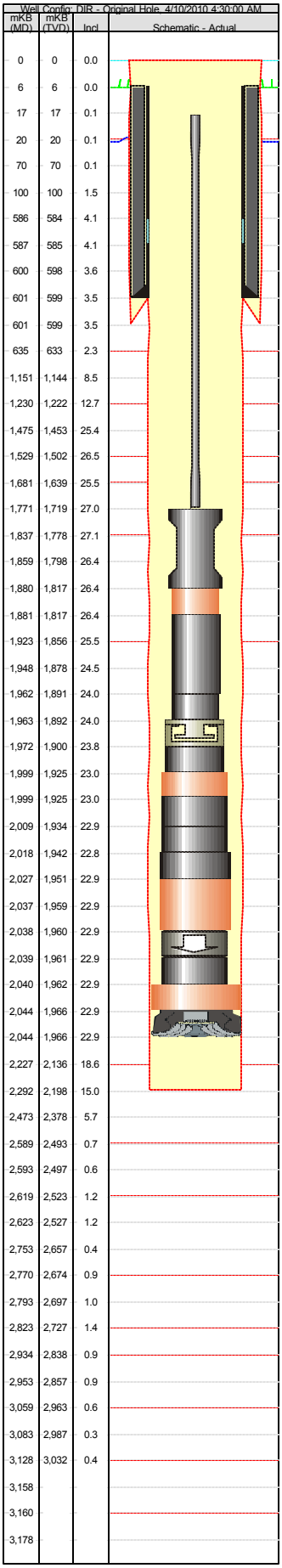
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	4/11/2010 12:00	4/11/2010 18:00	6.00	2,044.00	2,056.00	12.00	2.0	19	120		17,500
Original Hole	4/12/2010 12:00	4/12/2010 19:45	7.75	2,056.00	2,071.00	15.00	1.9	22	160		17,500
Original Hole	4/13/2010 00:00	4/13/2010 10:00	10.00	2,072.00	2,086.00	14.00	1.4	23	160		16,600
Original Hole	4/13/2010 12:00	4/13/2010 23:00	11.00	2,093.00	2,116.00	23.00	2.1	22	160		16,600
Original Hole	4/14/2010 00:00	4/14/2010 10:15	10.25	2,116.00	2,141.00	25.00	2.4	22	160		16,100
Original Hole	4/14/2010 12:00	4/14/2010 23:45	11.75	2,141.00	2,162.00	21.00	1.8	22	160		16,600
Original Hole	4/15/2010 00:00	4/15/2010 10:00	10.00	2,162.00	2,179.00	17.00	1.7	21	160		17,000

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
4/13/2010	2,113.00	Gel-Chem	1180.0	23.0	11.500	9.0		4.1
4/14/2010	2,158.00	Gel-Chem	1180.0	23.0	10.500	9.0		4.1
4/15/2010	2,178.00	Gel-Chem	1180.0	20.0	13.300	9.0		4.1

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #18, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
1,908.00	2,044.00	112.00	61.75	1.8

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
17	0.30	HUGHES	GX-44DX	6072050	6-1-7-	1-1-NO-A-5-0-NO-HR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	2,027.54	24	15	165	90		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	2,027....
64	Drill pipe - Stands								1,754....	2,027....
8	HWDP(5.0 IN)	139.0							109.03	273.16
1	X/O	164.0							0.61	164.13
6	DC (6.50 IN)	167.0							81.71	163.52
1	BELL SUB //X/O	161.0							0.71	81.81
1	JARS-HYD/MECH	203.0							9.21	81.10
2	DC (8.00 IN)	203.0							26.85	71.89
1	X/O	228.5							0.40	45.04
1	DC (9.00 IN)	228.5							9.15	44.64
1	DC (9.00 IN)	228.5							9.15	35.49
1	NMDC	244.5							9.47	26.34
1	SLIM PLUSE	244.5							9.34	16.87
1	UBHO	244.5							1.01	7.53
1	FLOAT SUB	228.5							1.10	6.52
1	X/O SUB	228.0							0.91	5.42
1	POWER DRIVE 900	307.0							4.21	4.51

Drilling Parameters

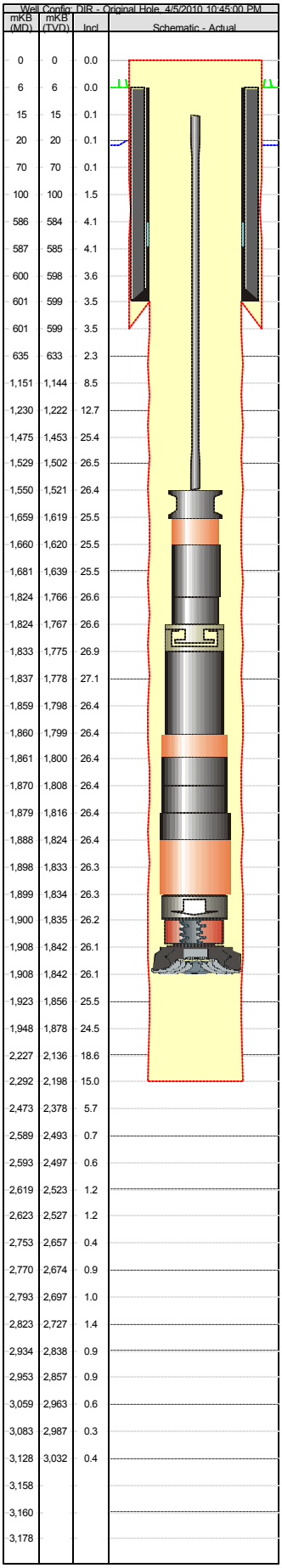
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	4/6/2010 12:00	4/6/2010 15:15	3.25	1,908.00	1,912.00	4.00	1.2	15	150		17,700
Original Hole	4/7/2010 00:00	4/7/2010 10:30	10.50	1,912.00	1,934.00	22.00	2.1	17	165		17,700
Original Hole	4/7/2010 12:00	4/7/2010 23:00	11.00	1,934.00	1,948.00	14.00	1.3	23	100		17,800
Original Hole	4/8/2010 12:00	4/8/2010 22:45	10.75	1,972.00	1,992.00	20.00	1.9	24	90		17,300
Original Hole	4/9/2010 00:00	4/9/2010 11:15	11.25	1,992.00	2,013.00	21.00	1.9	23	100		17,200
Original Hole	4/9/2010 12:00	4/9/2010 22:30	10.50	2,013.00	2,035.00	22.00	2.1	23	100		17,300
Original Hole	4/10/2010 00:00	4/10/2010 04:30	4.50	2,035.00	2,044.00	9.00	2.0	23	90		17,300

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
4/6/2010	1,912.00	Gel-Chem	1155.0	17.0	8.600	8.5	0.8	5.8
4/7/2010	1,933.00	Gel-Chem	1140.0	20.0	7.700	9.5	0.5	5.8
4/8/2010	1,987.00	Gel-Chem	1135.0	16.0	8.600	9.0	0.9	
4/9/2010	2,029.00	Gel-Chem	1150.0	20.0	11.500	9.0		
4/10/2010	2,044.00	Gel-Chem	1145.0		10.000			

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #17, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
1,701.00	1,908.00	207.00	78.25	2.6

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
16	0.30	HUGHES	GX-44DX	6072495	6-1-7-	1-1-WT-A-F-0--HR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	1,892.75	20	17	165	55	2.700	2.700

Comment

1 broken insert. 1 bearing failure

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	1,892....
56	Drill pipe - Stands								1,535....	1,892....
8	HWDP(5.0 IN)	139.0							109.03	357.70
1	X/O	164.0							0.61	248.67
12	DC (6.50 IN)	167.0							163.54	248.06
1	BELL SUB //X/O	161.0							0.71	84.52
1	JARS-HYD/MECH	203.0							9.21	83.81
2	DC (8.00 IN)	203.0							26.85	74.60
1	X/O	228.5							0.40	47.75
1	DC (9.00 IN)	228.5							9.15	47.35
1	DC (9.00 IN)	228.5							9.15	38.20
1	NMDC	244.5							9.34	29.05
1	SLIM PLUSE	244.5							9.34	19.71
1	UBHO	244.5							1.01	10.37
1	FLOAT SUB	228.5							1.10	9.36
1	MOTOR HS	203.0							7.96	8.26

Drilling Parameters

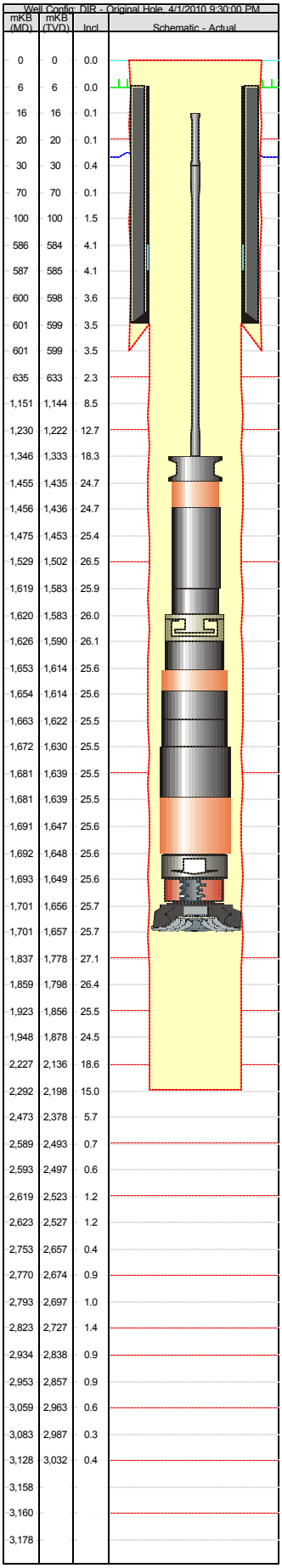
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	4/2/2010 02:00	4/2/2010 04:15	2.25	1,701.00	1,707.00	6.00	2.7	19	55		0
Original Hole	4/2/2010 12:00	4/2/2010 23:00	11.00	1,707.00	1,741.00	34.00	3.1	18	55		19,800
Original Hole	4/3/2010 00:00	4/3/2010 10:45	10.75	1,741.00	1,775.00	34.00	3.2	18	80	2.700	19,700
Original Hole	4/3/2010 12:00	4/3/2010 22:45	10.75	1,775.00	1,799.00	24.00	2.2	18	85		19,400
Original Hole	4/4/2010 00:00	4/4/2010 11:00	11.00	1,799.00	1,830.00	31.00	2.8	20	85		20,400
Original Hole	4/4/2010 12:00	4/4/2010 22:45	10.75	1,830.00	1,863.00	33.00	3.1	17	75		20,300
Original Hole	4/5/2010 00:00	4/5/2010 11:00	11.00	1,863.00	1,886.00	23.00	2.1	20	75		20,400
Original Hole	4/5/2010 12:00	4/5/2010 22:45	10.75	1,886.00	1,908.00	22.00	2.0	19	75		20,900

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
4/2/2010	1,732.00	Gel-Chem	1145.0	19.0	10.100	9.0	0.4	5.7
4/3/2010	1,792.00	Gel-Chem	1140.0	21.0	10.100	8.5	0.5	4.7
4/4/2010	1,861.00	Gel-Chem	1140.0	19.0	10.100	8.5	0.5	4.8
4/5/2010	1,902.00	Gel-Chem	1150.0	21.0	13.400	8.5	0.5	5.8

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #16, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
1,552.00	1,701.00	146.00	62.75	2.3

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
15	0.30	HUGHES	S55RDX	6071993	6-3-7-	2-2-NO-A-E-1-NO-PR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	1,684.57	20	19	60	40		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.69	1,684....
48	Drill pipe - Stands								1,315....	1,670....
8	HWDP(5.0 IN)	139.0							109.03	355.16
1	X/O	164.0							0.61	246.13
12	DC (6.50 IN)	167.0							163.54	245.52
1	BELL SUB //X/O	161.0							0.71	81.98
1	JARS-HYD/MECH	203.0							6.67	81.27
2	DC (8.00 IN)	203.0							26.85	74.60
1	X/O	228.5							0.40	47.75
1	DC (9.00 IN)	228.5							9.15	47.35
1	DC (9.00 IN)	228.5							9.15	38.20
1	NMDC	244.5							9.34	29.05
1	SLIM PLUSE	244.5							9.34	19.71
1	UBHO	244.5							1.01	10.37
1	FLOAT SUB	228.5							1.10	9.36
1	MOTOR HS	203.0							7.96	8.26

Drilling Parameters

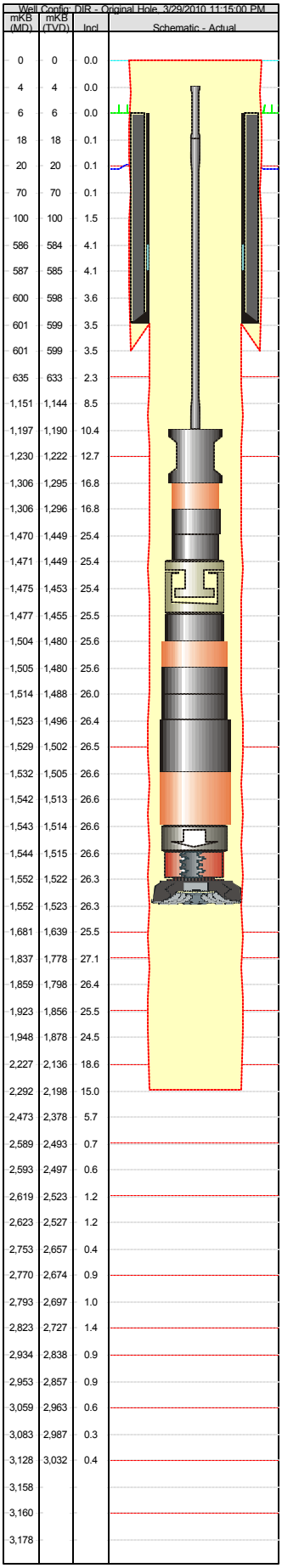
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/31/2010 00:00	3/31/2010 10:45	10.75	1,579.00	1,609.00	30.00	2.8	19	50		18,800
Original Hole	3/31/2010 09:00	4/1/2010 06:00	21.00	1,552.00	1,579.00	27.00	1.3	20	40		18,700
Original Hole	3/31/2010 12:00	3/31/2010 22:45	10.75	1,609.00	1,641.00	32.00	3.0	19	60		18,500
Original Hole	4/1/2010 00:00	4/1/2010 10:45	10.75	1,641.00	1,674.00	33.00	3.1	20	60		19,000
Original Hole	4/1/2010 12:00	4/1/2010 21:30	9.50	1,677.00	1,701.00	24.00	2.5	20	60		19,050

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/31/2010	1,635.00	Gel-Chem	1120.0	16.0	9.100	8.0	0.4	4.7
4/1/2010	1,700.00	Gel-Chem	1140.0	17.0	8.600	9.0	0.5	5.7

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #15, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
1,433.00	1,552.00	119.00	42.50	2.8

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
14	0.36	REED	M4249ZPD2T	CW7863	5-3-7-	8-8-WT-A-F-1.00-BT-PR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	1,547.62	20	10	40	35		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.71	1,547....
43	Drill pipe - Stands								1,178....	1,533....
8	HWDP(5.0 IN)	139.0							109.03	355.22
1	X/O	164.0							0.61	246.19
12	DC (6.50 IN)	167.0							163.54	245.58
1	BELL SUB //X/O	161.0							0.71	82.04
1	JARS-HYD/MECH	203.0							6.67	81.33
2	DC (8.00 IN)	203.0							26.85	74.66
1	X/O	228.5							0.40	47.81
1	DC (9.00 IN)	228.5							9.15	47.41
1	DC (9.00 IN)	228.5							9.15	38.26
1	NMDC	244.5							9.34	29.11
1	SLIM PLUSE	244.5							9.34	19.77
1	UBHO	244.5							1.01	10.43
1	FLOAT SUB	228.5							1.10	9.42
1	MOTOR HS	203.0							7.96	8.32

Drilling Parameters

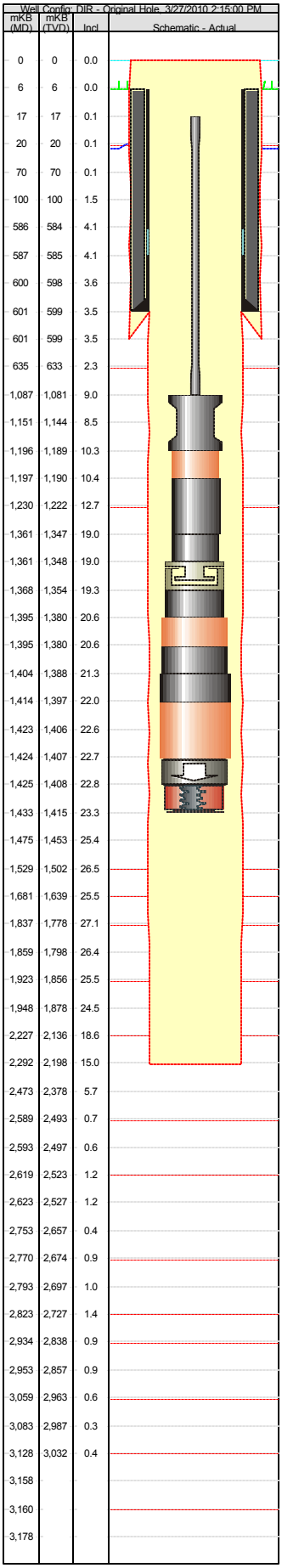
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/28/2010 00:00	3/28/2010 10:15	10.25	1,433.00	1,464.00	31.00	3.0	10	40		18,900
Original Hole	3/28/2010 12:00	3/28/2010 22:30	10.50	1,464.00	1,503.00	39.00	3.7	18	35		19,700
Original Hole	3/29/2010 00:00	3/29/2010 10:30	10.50	1,503.00	1,538.00	35.00	3.3	19	40		17,600
Original Hole	3/29/2010 12:00	3/29/2010 23:15	11.25	1,538.00	1,552.00	14.00	1.2	20	40		18,700

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/28/2010	1,492.00	Gel-Chem	1120.0	17.0	8.600	9.0	0.5	4.7
3/29/2010	1,551.00	Gel-Chem	1115.0	15.0	9.600	8.5	0.5	4.7

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #14, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
1,386.00	1,433.00	47.00	26.25	1.8

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
13		HUGHES	HCM608	7109973	---	4-5-BT-A-X-0-LT-PR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	1,415.56	12	10	40	40		

Comment

15 chipped cutters.1 cutter missing.

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	1,415....
39	Drill pipe - Stands								1,069....	1,415....
8	HWDP(5.0 IN)	139.0							109.05	345.64
1	X/O	164.0							0.61	236.59
12	DC (6.50 IN)	167.0							163.45	235.98
1	BELL SUB //X/O	161.0							0.71	72.53
1	JARS-HYD/MECH	203.0							6.67	71.82
2	DC (8.00 IN)	203.0							26.85	65.15
1	X/O	228.5							0.40	38.30
1	DC (9.00 IN)	228.5							9.15	37.90
1	NMDC	244.5							9.34	28.75
1	SLIM PLUSE	244.5							9.34	19.41
1	UBHO	244.5							1.01	10.07
1	FLOAT SUB	228.5							1.10	9.06
1	MOTOR HS	203.0							7.96	7.96

Drilling Parameters

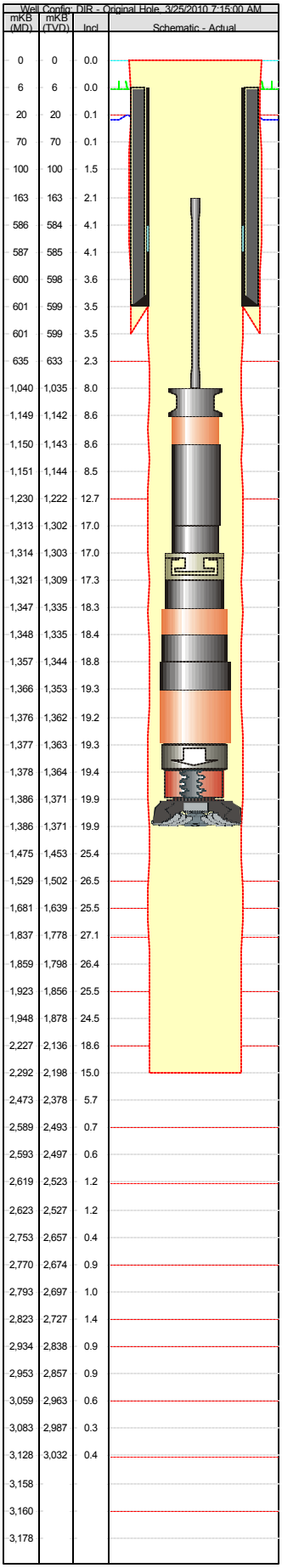
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/26/2010 00:00	3/26/2010 02:00	2.00	1,386.00	1,393.00	7.00	3.5	10	40		20,400
Original Hole	3/26/2010 12:00	3/26/2010 22:30	10.50	1,393.00	1,423.00	30.00	2.9	10	40		20,500
Original Hole	3/27/2010 00:00	3/27/2010 11:30	11.50	1,423.00	1,431.00	8.00	0.7	10	40		15,700
Original Hole	3/27/2010 12:00	3/27/2010 14:15	2.25	1,431.00	1,433.00	2.00	0.9	12	40		17,200

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/26/2010	1,421.00	Gel-Chem	1125.0	17.0	11.000	8.2	0.5	4.7
3/27/2010	1,429.00	Gel-Chem	1120.0	18.0	10.100	8.2	0.4	4.7

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #13, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
1,294.00	1,386.00	92.00	46.25	2.0

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
RR12	0.38	HUGHES	GX-35DX	6074869	5-3-7-	2-2-FC-A-E-1.00-NO-BHA

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	1,223.39	14	10	170	120		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	1,223....
32	Drill pipe - Stands								877.37	1,223....
8	HWDP(5.0 IN)	139.0							109.05	346.02
1	X/O	164.0							0.61	236.97
12	DC (6.50 IN)	167.0							163.45	236.36
1	BELL SUB //X/O	161.0							0.71	72.91
1	JARS-HYD/MECH	203.0							6.67	72.20
2	DC (8.00 IN)	203.0							26.85	65.53
1	X/O	228.5							0.40	38.68
1	DC (9.00 IN)	228.5							9.15	38.28
1	NMDC	244.5							9.34	29.13
1	SLIM PLUSE	244.5							9.34	19.79
1	UBHO	244.5							1.01	10.45
1	FLOAT SUB	228.5							1.10	9.44
1	MOTOR HS	203.0							7.96	8.34

Drilling Parameters

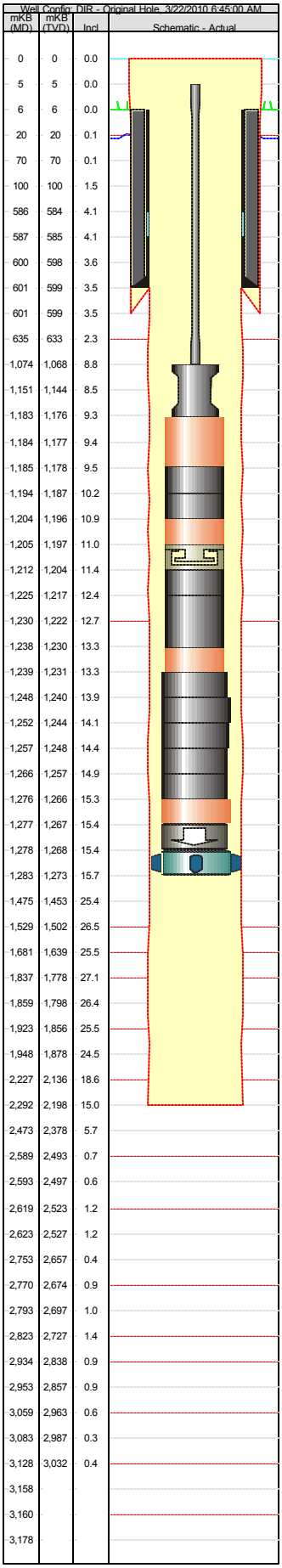
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/23/2010 00:00	3/23/2010 06:00	6.00	1,294.00	1,305.00	11.00	1.8	10	120		13,850
Original Hole	3/23/2010 12:00	3/23/2010 23:00	11.00	1,305.00	1,328.00	23.00	2.1	13	170		13,750
Original Hole	3/24/2010 00:00	3/24/2010 10:45	10.75	1,328.00	1,350.00	22.00	2.0	14	170		13,800
Original Hole	3/24/2010 12:00	3/24/2010 23:15	11.25	1,350.00	1,371.00	21.00	1.9	13	170		13,000
Original Hole	3/25/2010 00:00	3/25/2010 07:15	7.25	1,371.00	1,386.00	15.00	2.1	13	170		13,700

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/23/2010	1,323.00	Gel-Chem	1110.0	21.0	5.300	8.3	1.0	4.7
3/24/2010	1,365.00	Gel-Chem	1130.0	20.0	10.500	8.5	1.0	4.7

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #12, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
1,076.00	1,283.00	207.00	84.25	2.5

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
11		SMITH	MSi816WBPX	SCB792	---	0-0-NO-A-X-0-NO-PR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	1,278.13	10	9	120	110		

Comment

No chipped cutters.Cracks in 4 blades

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	1,278....
39	Drill pipe - Stands								1,069....	1,278....
8	HWDP(5.0 IN)	127.0							109.05	208.92
1	X/O	202.0							0.89	99.87
1	X/O	202.0							1.13	98.98
1	DC (8.00 IN)	202.0							9.25	97.85
1	DC (8.00 IN)	202.0							9.23	88.60
1	X/O	202.0							1.28	79.37
1	JARS-HYD	203.2							6.67	78.09
1	DC (8.00 IN)	205.0							13.39	71.42
1	DC (8.00 IN)	205.0							13.46	58.03
1	X/O	203.0							0.40	44.57
1	DC (9.00 IN)	227.0							9.15	44.17
1	DC-PONY	237.0							4.43	35.02
1	DC-PONY	236.0							4.66	30.59
1	NMDC	230.0							9.34	25.93
1	NMDC/TOOL CARRIER	229.9							9.34	16.59
1	UBHO	241.3							1.01	7.25
1	FLOAT SUB	228.6							1.10	6.24
1	STABILIZED CC	239.0							5.14	5.14

Drilling Parameters

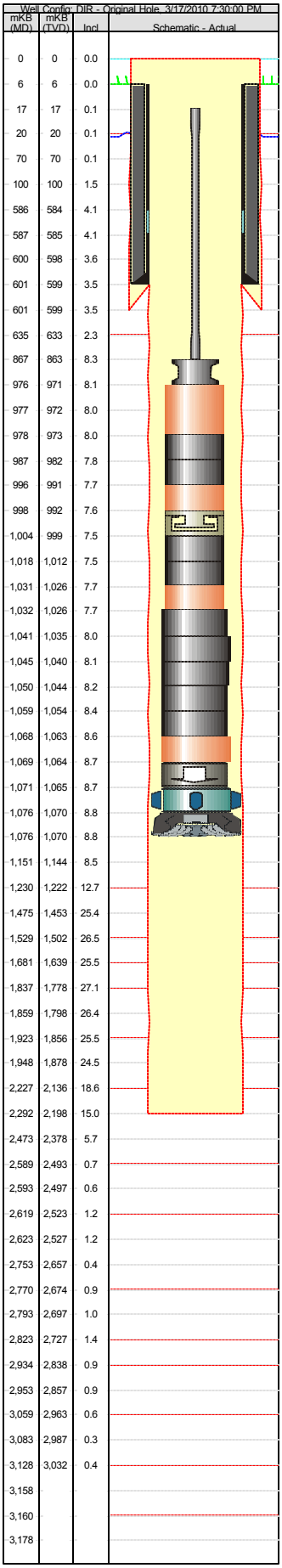
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/18/2010 02:00	3/18/2010 03:30	1.50	1,076.00	1,079.00	3.00	2.0	10	120		0
Original Hole	3/18/2010 12:00	3/18/2010 22:45	10.75	1,079.00	1,109.00	30.00	2.8	10	120		11,500
Original Hole	3/19/2010 00:00	3/19/2010 11:00	11.00	1,109.00	1,130.00	21.00	1.9	9	110		11,600
Original Hole	3/19/2010 12:00	3/19/2010 23:30	11.50	1,130.00	1,157.00	27.00	2.3	10	120		12,700
Original Hole	3/20/2010 00:00	3/20/2010 10:45	10.75	1,157.00	1,180.00	23.00	2.1	10	120		12,700
Original Hole	3/20/2010 12:00	3/20/2010 22:00	10.00	1,180.00	1,210.00	30.00	3.0	10	120		12,400
Original Hole	3/21/2010 00:00	3/21/2010 11:00	11.00	1,210.00	1,239.00	29.00	2.6	10	120		12,450
Original Hole	3/21/2010 12:00	3/21/2010 23:00	11.00	1,239.00	1,269.00	30.00	2.7	10	120		12,800
Original Hole	3/22/2010 00:00	3/22/2010 06:45	6.75	1,269.00	1,283.00	14.00	2.1	10	120		13,000

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/19/2010	1,144.00	Gel-Chem	1140.0	14.0	8.100			
3/20/2010	1,198.00	Gel-Chem	1120.0	12.0	8.100	8.5	1.2	
3/21/2010	1,254.00	Gel-Chem	1125.0	14.0	8.900	8.7	1.5	6.5

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #11, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
1,036.00	1,076.00	40.00	18.25	2.2

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
10	0.38	HUGHES	GX-35DX	6074869	5-3-7-	-------

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	1,059.18	14	12	140	140		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	1,059....
31	Drill pipe - Stands								849.90	1,059....
8	HWDP(5.0 IN)	127.0							109.05	209.28
1	X/O	202.0							0.89	100.23
1	X/O	202.0							1.13	99.34
1	DC (8.00 IN)	202.0							9.25	98.21
1	DC (8.00 IN)	202.0							9.23	88.96
1	X/O	202.0							1.28	79.73
1	JARS-HYD	203.2							6.67	78.45
1	DC (8.00 IN)	205.0							13.39	71.78
1	DC (8.00 IN)	205.0							13.46	58.39
1	X/O	203.0							0.40	44.93
1	DC (9.00 IN)	227.0							9.15	44.53
1	DC-PONY	237.0							4.43	35.38
1	DC-PONY	236.0							4.66	30.95
1	NMDC	230.0							9.34	26.29
1	NMDC/TOOL CARRIER	229.9							9.34	16.95
1	UBHO	241.3							1.01	7.61
1	FLOAT SUB	228.6							1.10	6.60
1	STABILIZED CC	239.0							5.12	5.50

Drilling Parameters

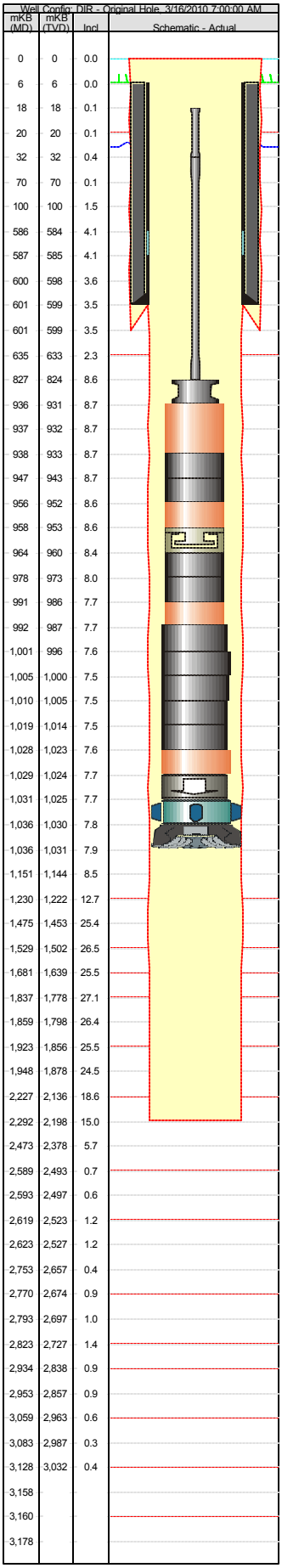
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/17/2010 00:00	3/17/2010 10:45	10.75	1,036.00	1,061.00	25.00	2.3	14	140		5,350
Original Hole	3/17/2010 12:00	3/17/2010 19:30	7.50	1,061.00	1,076.00	15.00	2.0	12	140		11,400

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/17/2010	1,078.00	Gel-Chem	1120.0	15.0	9.600	9.0		

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #10, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
899.00	1,036.00	268.00	44.00	6.1

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
9	0.38	HUGHES	HCD506Z	7011078	---	2-2-CC-H-X-2.00-CC-PR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	1,018.11	9	4	120	120	2.700	2.700

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.70	1,018....
29	Drill pipe - Stands								795.13	1,004....
8	HWDP(5.0 IN)	127.0							109.05	209.28
1	X/O	202.0							0.89	100.23
1	X/O	202.0							1.13	99.34
1	DC (8.00 IN)	202.0							9.25	98.21
1	DC (8.00 IN)	202.0							9.23	88.96
1	X/O	202.0							1.28	79.73
1	JARS-HYD	203.2							6.67	78.45
1	DC (8.00 IN)	205.0							13.39	71.78
1	DC (8.00 IN)	205.0							13.46	58.39
1	X/O	203.0							0.40	44.93
1	DC (9.00 IN)	227.0							9.15	44.53
1	DC-PONY	237.0							4.43	35.38
1	DC-PONY	236.0							4.66	30.95
1	NMDC	230.0							9.34	26.29
1	NMDC/TOOL CARRIER	229.9							9.34	16.95
1	UBHO	241.3							1.01	7.61
1	FLOAT SUB	228.6							1.10	6.60
1	STABILIZED CC	239.0							5.12	5.50

Drilling Parameters

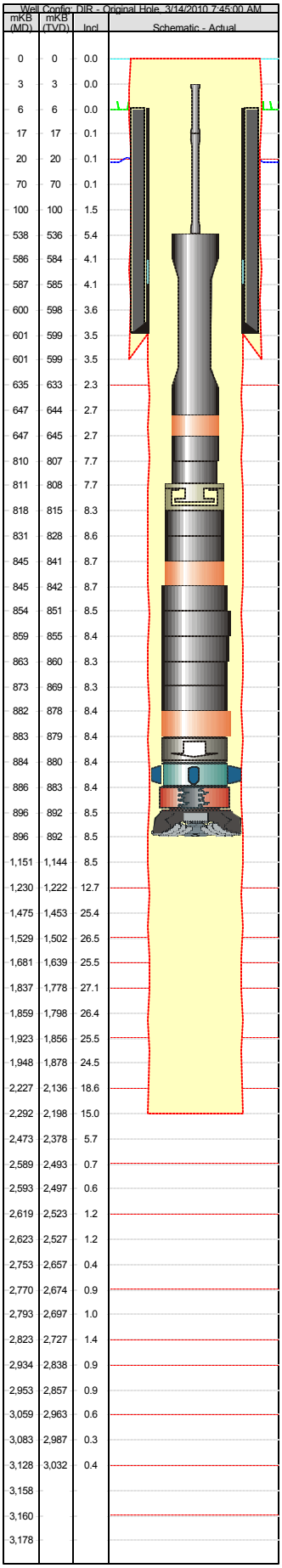
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/15/2010 00:00	3/15/2010 07:45	7.75	899.00	977.00	78.00	10.1	9	120	2.700	8,100
Original Hole	3/15/2010 00:00	3/15/2010 07:45	7.75	899.00	977.00	78.00	10.1	9	120		8,100
Original Hole	3/15/2010 12:00	3/15/2010 22:45	10.75	977.00	1,030.00	53.00	4.9	7	120	2.700	10,100
Original Hole	3/15/2010 12:00	3/15/2010 22:45	10.75	977.00	1,030.00	53.00	4.9	7	120		10,100
Original Hole	3/16/2010 00:00	3/16/2010 07:00	7.00	1,030.00	1,036.00	6.00	0.9	4	120		10,100

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/15/2010	1,025.00	Gel-Chem	1070.0	11.0	6.700	8.75		
3/16/2010	1,036.00	Gel-Chem	1060.0	12.0	7.700	9.5		

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #9, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
700.00	896.00	182.54	57.75	3.2

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
8	0.33	HUGHES	GX-35DX	6072503	5-4-7-	1-1-NO-A-4-311.00-NO-HR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	892.86	14	14	35	30		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.71	892.86
19	Drill pipe - Stands								520.84	879.15
8	HWDP(5.0 IN)	127.0							109.05	358.31
1	X/O	165.0							0.19	249.26
12	DC (6.50 IN)	165.0							163.42	249.07
1	BELL SUB	160.0							0.71	85.65
1	JARS-HYD	203.2							6.67	84.94
1	DC (8.00 IN)	205.0							13.39	78.27
1	DC (8.00 IN)	205.0							13.46	64.88
1	X/O	203.0							0.40	51.42
1	DC (9.00 IN)	227.0							9.15	51.02
1	DC-PONY	237.0							4.43	41.87
1	DC-PONY	236.0							4.66	37.44
1	NMDC	230.0							9.34	32.78
1	NMDC/TOOL CARRIER	229.9							9.34	23.44
1	UBHO	241.3							1.01	14.10
1	FLOAT SUB	228.6							1.10	13.09
1	STRING STABLIZER	228.6							2.41	11.99
1	MOTOR HS	244.0							9.25	9.58

Drilling Parameters

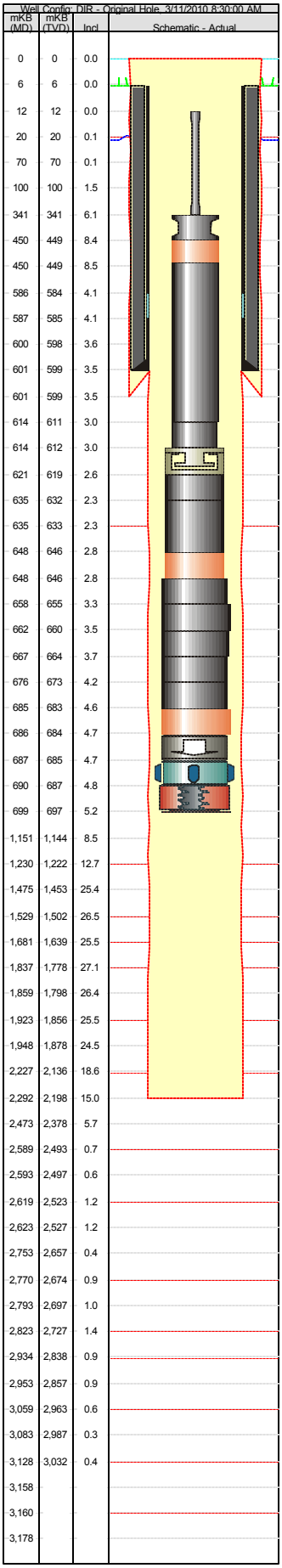
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/11/2010 12:00	3/11/2010 18:45	6.75	700.00	731.00	31.00	4.6	14	30		13,200
Original Hole	3/12/2010 00:00	3/12/2010 10:30	10.50	731.00	758.00	27.00	2.6	14	30		13,500
Original Hole	3/12/2010 12:00	3/12/2010 23:00	11.00	772.00	807.00	35.00	3.2	14	35		13,400
Original Hole	3/13/2010 00:00	3/13/2010 10:45	10.75	807.00	844.54	37.54	3.5	14	30		13,600
Original Hole	3/13/2010 12:00	3/13/2010 23:00	11.00	844.00	876.00	32.00	2.9	14	30		13,000
Original Hole	3/14/2010 00:00	3/14/2010 07:45	7.75	876.00	896.00	20.00	2.6	14	30		12,500

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/12/2010	789.00	Gel-Chem	1060.0		5.700	9.25	0.3	
3/13/2010	858.00	Gel-Chem	1050.0		5.700	8.75	0.2	

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.



BHA #8, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
601.00	699.00	98.00	43.00	2.3

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
7		SMITH	XR+	8362	1-1-7-	5-7-WT-A-E-311.00-NO-HR

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	686.98	18	10	25	25		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	686.98
12	Drill pipe - Stands								329.00	686.98
8	HWDP(5.0 IN)	127.0							109.05	357.98
1	X/O	165.0							0.19	248.93
12	DC (6.50 IN)	165.0							163.42	248.74
1	BELL SUB	160.0							0.71	85.32
1	JARS-HYD	203.2							6.67	84.61
1	DC (8.00 IN)	205.0							13.39	77.94
1	DC (8.00 IN)	205.0							13.46	64.55
1	X/O	203.0							0.40	51.09
1	DC (9.00 IN)	227.0							9.15	50.69
1	DC-PONY	237.0							4.43	41.54
1	DC-PONY	236.0							4.66	37.11
1	NMDC	230.0							9.34	32.45
1	NMDC/TOOL CARRIER	229.9							9.34	23.11
1	UBHO	241.3							1.01	13.77
1	FLOAT SUB	228.6							1.10	12.76
1	STRING STABLIZER	228.6							2.41	11.66
1	MOTOR HS	244.0							9.25	9.25

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/8/2010 12:00	3/8/2010 12:15	0.25	601.00	602.00	1.00	4.0	10	25		12,000
Original Hole	3/9/2010 00:00	3/9/2010 10:15	10.25	602.00	634.00	32.00	3.1	12	25		10,200
Original Hole	3/9/2010 12:00	3/9/2010 22:15	10.25	634.00	663.00	29.00	2.8	18	25		10,800
Original Hole	3/10/2010 00:00	3/10/2010 02:30	2.50	663.00	667.00	4.00	1.6	16	25		12,300
Original Hole	3/10/2010 12:00	3/10/2010 23:15	11.25	667.00	685.00	18.00	1.6	16	25		12,300
Original Hole	3/11/2010 00:00	3/11/2010 08:30	8.50	685.00	699.00	14.00	1.6	16	25		12,100

Mud Checks

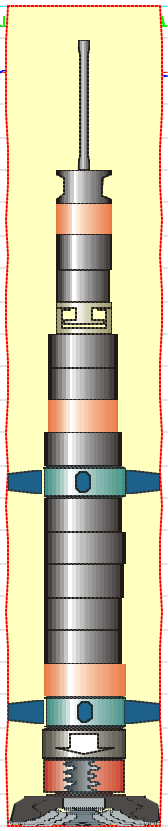
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/9/2010	663.00	Gel-Chem	1050.0	12.0	6.200	0.0		0.8
3/10/2010	677.00	Gel-Chem	1045.0	10.0	5.500	8.7	0.3	
3/11/2010	700.00	Gel-Chem	1045.0			9.0		

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

Well Config: DIR - Original Hole, 3/5/2010 5:15:00 AM

mKB (MD)	mKB (TVD)	Incl	Schematic - Actual
0	0	0.0	
11	11	0.0	
20	20	0.1	
70	70	0.1	
100	100	1.5	
231	231	3.0	
340	339	6.0	
340	339	6.0	
503	501	7.6	
504	502	7.6	
513	511	6.8	
527	525	6.0	
540	538	5.2	
541	538	5.2	
550	547	4.6	
552	550	4.5	
561	559	4.2	
565	563	4.2	
570	568	4.2	
579	577	4.2	
589	586	4.0	
590	587	4.0	
592	589	3.9	
593	591	3.9	
601	598	3.5	
601	599	3.5	
635	633	2.3	
1,151	1,144	8.5	
1,230	1,222	12.7	
1,475	1,453	25.4	
1,529	1,502	26.5	
1,681	1,639	25.5	
1,837	1,778	27.1	
1,859	1,798	26.4	
1,923	1,856	25.5	
1,948	1,878	24.5	
2,227	2,136	18.6	
2,473	2,378	5.7	
2,589	2,493	0.7	
2,593	2,497	0.6	
2,619	2,523	1.2	
2,623	2,527	1.2	
2,753	2,657	0.4	
2,770	2,674	0.9	
2,793	2,697	1.0	
2,823	2,727	1.4	
2,934	2,838	0.9	
2,953	2,857	0.9	
3,059	2,963	0.6	
3,083	2,987	0.3	
3,128	3,032	0.4	
3,158			
3,160			
3,178			



BHA #7, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
560.00	601.20	41.20	15.00	2.7

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
6RR	0.48	REED	5HOA598-7086	NC5609	5-1-5-	3-4-FC-A-E-8.00-NO-TD

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	589.86	21	18	26	22		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	589.86
8	Drill pipe - Stands								219.31	589.86
8	HWDP(5.0 IN)	127.0							109.05	370.55
1	X/O	165.0							0.19	261.50
12	DC (6.50 IN)	165.0							163.42	261.31
1	BELL SUB	160.0							0.71	97.89
1	JARS-HYD	166.0							9.21	97.18
1	DC (8.00 IN)	205.0							13.39	87.97
1	DC (8.00 IN)	205.0							13.46	74.58
1	X/O	203.0							0.40	61.12
1	DC (9.00 IN)	227.0							9.14	60.72
1	STRING STABLIZER	243.0							2.18	51.58
1	DC (9.00 IN)	227.0							9.15	49.40
1	DC-PONY	237.0							4.43	40.25
1	DC-PONY	236.0							4.66	35.82
1	NMDC	230.0							9.34	31.16
1	NMDC/TOOL CARRIER	230.0							9.34	21.82
1	UBHO	241.0							1.01	12.48
1	STRING STABLIZER	240.0							1.95	11.47
1	FLOAT SUB	243.0							1.10	9.52
1	MOTOR HS	241.0							7.94	8.42

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/4/2010 12:00	3/4/2010 21:45	9.75	560.00	589.00	29.00	3.0	18	26		17,800
Original Hole	3/5/2010 00:00	3/5/2010 05:15	5.25	589.00	601.20	12.20	2.3	21	22		17,100

Mud Checks

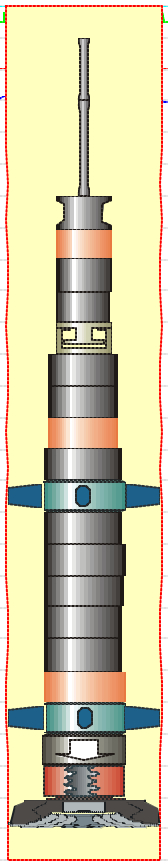
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/5/2010	601.00	Gel-Chem	1150.0	18.0	11.500	8.5		

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

Well Config: DIR - Original Hole, 3/3/2010 10:15:00 PM

mKB (MD)	mKB (TVD)	Incl	Schematic - Actual
0	0	0.0	
12	12	0.0	
20	20	0.1	
25	25	0.3	
70	70	0.1	
100	100	1.5	
190	189	2.7	
299	298	4.4	
299	298	4.4	
462	461	8.3	
463	461	8.3	
472	470	8.2	
485	484	8.0	
499	497	7.7	
499	497	7.7	
508	506	7.3	
511	509	7.0	
520	518	6.2	
524	522	6.0	
529	527	5.9	
538	536	5.4	
548	545	4.6	
549	546	4.6	
551	548	4.5	
552	549	4.5	
560	557	4.3	
560	558	4.3	
601	599	3.5	
635	633	2.3	
1,151	1,144	8.5	
1,230	1,222	12.7	
1,475	1,453	25.4	
1,529	1,502	26.5	
1,681	1,639	25.5	
1,837	1,778	27.1	
1,859	1,798	26.4	
1,923	1,856	25.5	
1,948	1,878	24.5	
2,227	2,136	18.6	
2,473	2,378	5.7	
2,589	2,493	0.7	
2,593	2,497	0.6	
2,619	2,523	1.2	
2,623	2,527	1.2	
2,753	2,657	0.4	
2,770	2,674	0.9	
2,793	2,697	1.0	
2,823	2,727	1.4	
2,934	2,838	0.9	
2,953	2,857	0.9	
3,059	2,963	0.6	
3,083	2,987	0.3	
3,128	3,032	0.4	
3,158			
3,160			
3,178			



BHA #6, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
504.00	560.00	56.00	26.75	2.1

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
5	0.46	SMITH	XR+	PK7165	1-1-5-	-----0.00--

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	548.41	18	13	26	1		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.71	548.41
6	Drill pipe - Stands								164.17	534.70
8	HWDP(5.0 IN)	127.0							109.05	370.53
1	X/O	165.0							0.19	261.48
12	DC (6.50 IN)	165.0							163.42	261.29
1	BELL SUB	160.0							0.71	97.87
1	JARS-HYD	166.0							9.21	97.16
1	DC (8.00 IN)	205.0							13.39	87.95
1	DC (8.00 IN)	205.0							13.46	74.56
1	X/O	203.0							0.40	61.10
1	DC (9.00 IN)	227.0							9.14	60.70
1	STRING STABLIZER	243.0							2.18	51.56
1	DC (9.00 IN)	227.0							9.15	49.38
1	DC-PONY	237.0							4.43	40.23
1	DC-PONY	236.0							4.66	35.80
1	NMDC	230.0							9.34	31.14
1	NMDC/TOOL CARRIER	230.0							9.34	21.80
1	UBHO	241.0							1.01	12.46
1	STRING STABLIZER	240.0							1.95	11.45
1	FLOAT SUB	243.0							1.10	9.50
1	MOTOR HS	241.0							7.94	8.40

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	3/2/2010 12:00	3/2/2010 17:15	5.25	504.00	513.00	9.00	1.7	13	1		15,900
Original Hole	3/3/2010 00:00	3/3/2010 11:15	11.25	513.00	537.00	24.00	2.1	17	1		16,400
Original Hole	3/3/2010 12:00	3/3/2010 22:15	10.25	537.00	560.00	23.00	2.2	18	26		16,900

Mud Checks

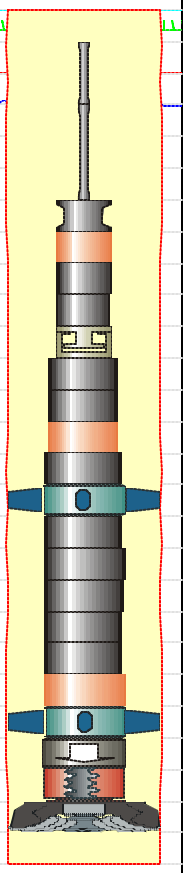
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
3/3/2010	554.00	Gel-Chem	1150.0			8.75		9.5

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

Well Config: DIR - Original Hole, 3/2/2010 10:30:00 AM

mKB (MD)	mKB (TVD)	Incl	Schematic - Actual
0	0	0.0	
10	10	0.0	
20	20	0.1	
24	24	0.3	
70	70	0.1	
100	100	1.5	
134	133	1.8	
243	242	3.1	
243	243	3.1	
406	405	8.0	
407	406	8.0	
416	415	8.0	
429	428	8.1	
443	442	8.3	
443	442	8.4	
452	451	8.5	
455	453	8.4	
464	462	8.3	
468	467	8.2	
473	471	8.2	
482	480	8.0	
492	490	7.9	
493	491	7.9	
495	493	7.8	
496	494	7.8	
504	502	7.6	
504	502	7.6	
601	599	3.5	
635	633	2.3	
1,151	1,144	8.5	
1,230	1,222	12.7	
1,475	1,453	25.4	
1,529	1,502	26.5	
1,681	1,639	25.5	
1,837	1,778	27.1	
1,859	1,798	26.4	
1,923	1,856	25.5	
1,948	1,878	24.5	
2,227	2,136	18.6	
2,473	2,378	5.7	
2,589	2,493	0.7	
2,593	2,497	0.6	
2,619	2,523	1.2	
2,623	2,527	1.2	
2,753	2,657	0.4	
2,770	2,674	0.9	
2,793	2,697	1.0	
2,823	2,727	1.4	
2,934	2,838	0.9	
2,953	2,857	0.9	
3,059	2,963	0.6	
3,083	2,987	0.3	
3,128	3,032	0.4	
3,158			
3,160			
3,178			



BHA #5, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
400.00	504.00	103.00	48.50	2.1

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
4	0.48	REED	5HOA598-7086	NC5609	5-1-5-	1-3-FC-G-E-0.00-NO-HP

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	493.92	18	12	45	1	3.000	3.000

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.70	493.92
4	Drill pipe - Stands								109.67	480.22
8	HWDP(5.0 IN)	127.0							109.05	370.55
1	X/O	165.0							0.19	261.50
12	DC (6.50 IN)	165.0							163.42	261.31
1	BELL SUB	160.0							0.71	97.89
1	JARS-HYD	166.0							9.21	97.18
1	DC (8.00 IN)	205.0							13.39	87.97
1	DC (8.00 IN)	205.0							13.46	74.58
1	X/O	203.0							0.40	61.12
1	DC (9.00 IN)	227.0							9.14	60.72
1	STRING STABLIZER	243.0							2.18	51.58
1	DC (9.00 IN)	227.0							9.15	49.40
1	DC-PONY	237.0							4.43	40.25
1	DC-PONY	236.0							4.66	35.82
1	NMDC	230.0							9.34	31.16
1	NMDC/TOOL CARRIER	230.0							9.34	21.82
1	UBHO	241.0							1.01	12.48
1	STRING STABLIZER	240.0							1.95	11.47
1	FLOAT SUB	243.0							1.10	9.52
1	MOTOR HS	241.0							7.94	8.42

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	2/27/2010 12:00	2/27/2010 15:15	3.25	400.00	409.00	9.00	2.8	18	1		14,100
Original Hole	2/28/2010 00:00	2/28/2010 07:39	7.65	409.00	425.00	16.00	2.1	12	35		13,500
Original Hole	2/28/2010 07:39	2/28/2010 10:59	3.35	425.00	432.00	7.00	2.1	14	45		13,500
Original Hole	2/28/2010 12:00	2/28/2010 22:45	10.75	432.00	456.00	24.00	2.2	17	45		14,800
Original Hole	3/1/2010 00:00	3/1/2010 02:15	2.25	456.00	459.00	3.00	1.3	18	45	3.000	14,500
Original Hole	3/1/2010 12:00	3/1/2010 22:45	10.75	460.00	483.00	23.00	2.1	17	1	3.000	16,000
Original Hole	3/2/2010 00:00	3/2/2010 10:30	10.50	483.00	504.00	21.00	2.0	16	1		16,900

Mud Checks

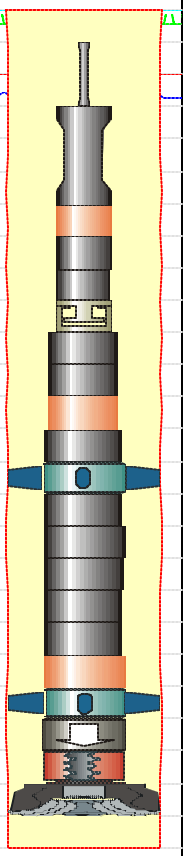
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
2/28/2010	429.00	Gel-Chem	1175.0	14.0	8.100	9.0		
3/1/2010	470.00	Gel-Chem	1150.0	10.0	6.200	8.5		
3/2/2010	501.00	Gel-Chem	1145.0	13.0	7.200	7.5		

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

Well Config: DIR - Original Hole, 2/27/2010 5:45:00 AM

mKB (MD)	mKB (TVD)	Incl	Schematic - Actual
0	0	0.0	
16	16	0.1	
20	20	0.1	
30	29	0.4	
70	70	0.1	
100	100	1.5	
139	138	1.7	
139	139	1.7	
302	302	4.5	
303	303	4.5	
312	312	4.9	
325	325	5.4	
339	338	6.0	
339	339	6.0	
348	348	6.4	
351	350	6.5	
360	359	6.8	
364	364	7.0	
369	368	7.2	
378	378	7.8	
388	387	7.9	
389	388	7.9	
391	390	7.9	
392	391	7.9	
400	399	7.9	
400	399	7.9	
601	599	3.5	
635	633	2.3	
1,151	1,144	8.5	
1,230	1,222	12.7	
1,475	1,453	25.4	
1,529	1,502	26.5	
1,681	1,639	25.5	
1,837	1,778	27.1	
1,859	1,798	26.4	
1,923	1,856	25.5	
1,948	1,878	24.5	
2,227	2,136	18.6	
2,473	2,378	5.7	
2,589	2,493	0.7	
2,593	2,497	0.6	
2,619	2,523	1.2	
2,623	2,527	1.2	
2,753	2,657	0.4	
2,770	2,674	0.9	
2,793	2,697	1.0	
2,823	2,727	1.4	
2,934	2,838	0.9	
2,953	2,857	0.9	
3,059	2,963	0.6	
3,083	2,987	0.3	
3,128	3,032	0.4	
3,158			
3,160			
3,178			



BHA #4, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
258.00	400.00	141.00	62.25	2.3

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
3	0.44	HUGHES	GTX-40	6075440	6-1-5-	4-6-FC-A-E-1.00-WT-BHA

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	384.32	15	10	160	30		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
1	Drill pipe - Singles								13.79	384.32
0	Drill pipe - Stands								0.00	370.53
8	HWDP(5.0 IN)	127.0							109.05	370.53
1	X/O	165.0							0.19	261.48
12	DC (6.50 IN)	165.0							163.42	261.29
1	BELL SUB	160.0							0.71	97.87
1	JARS-HYD	166.0							9.21	97.16
1	DC (8.00 IN)	205.0							13.39	87.95
1	DC (8.00 IN)	205.0							13.46	74.56
1	X/O	203.0							0.40	61.10
1	DC (9.00 IN)	227.0							9.14	60.70
1	STRING STABLIZER	243.0							2.18	51.56
1	DC (9.00 IN)	227.0							9.15	49.38
1	DC-PONY	237.0							4.43	40.23
1	DC-PONY	236.0							4.66	35.80
1	NMDC	230.0							9.34	31.14
1	NMDC/TOOL CARRIER	230.0							9.34	21.80
1	UBHO	241.0							1.01	12.46
1	STRING STABLIZER	240.0							1.95	11.45
1	FLOAT SUB	243.0							1.10	9.50
1	MOTOR HS	241.0							7.96	8.40

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	2/23/2010 17:00	2/23/2010 21:45	4.75	258.00	275.00	17.00	3.6	15	30		12,500
Original Hole	2/24/2010 00:00	2/24/2010 03:54	3.90	275.00	286.00	11.00	2.8	15	30		13,200
Original Hole	2/24/2010 03:54	2/24/2010 10:59	7.10	286.00	306.00	20.00	2.8	10	35		13,200
Original Hole	2/24/2010 12:00	2/24/2010 17:30	5.50	306.00	316.00	10.00	1.8	12	35		13,700
Original Hole	2/25/2010 00:00	2/25/2010 10:45	10.75	316.00	341.00	25.00	2.3	13	35		13,700
Original Hole	2/25/2010 12:00	2/25/2010 18:00	6.00	342.00	357.00	15.00	2.5	13	145		13,500
Original Hole	2/26/2010 00:00	2/26/2010 09:30	9.50	357.00	378.00	21.00	2.2	14	160		13,300
Original Hole	2/26/2010 12:00	2/26/2010 21:00	9.00	378.00	392.00	14.00	1.6	12	160		14,000
Original Hole	2/27/2010 00:00	2/27/2010 05:45	5.75	392.00	400.00	8.00	1.4	12	160		13,500

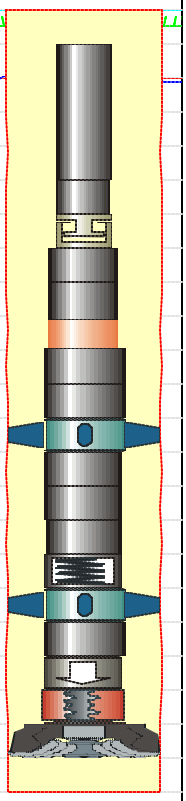
Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
2/24/2010	318.00	Gel-Chem	1160.0	13.0	5.700	8.5		9.8
2/25/2010	341.00	Gel-Chem	1150.0	15.0	6.200	8.0		
2/26/2010	386.00	Gel-Chem	1180.0			8.5		
2/27/2010	400.00	Gel-Chem	1180.0	17.0	9.600	8.0		

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

Well Config: DIR - Original Hole, 2/21/2010 8:44:00 AM

mKB (MD)	mKB (TVD)	Incl	Schematic - Actual
0	0	0.0	
13	13	0.0	
20	20	0.1	
70	70	0.1	
100	100	1.5	
163	163	2.1	
164	164	2.1	
173	173	2.3	
186	186	2.6	
200	200	2.8	
200	200	2.8	
205	204	2.8	
209	209	2.9	
211	211	2.9	
220	220	2.9	
229	229	3.0	
233	233	3.0	
237	237	3.0	
239	239	3.0	
249	248	3.1	
250	249	3.1	
258	257	3.1	
258	258	3.1	
601	599	3.5	
635	633	2.3	
1,151	1,144	8.5	
1,230	1,222	12.7	
1,475	1,453	25.4	
1,529	1,502	26.5	
1,681	1,639	25.5	
1,837	1,778	27.1	
1,859	1,798	26.4	
1,923	1,856	25.5	
1,948	1,878	24.5	
2,227	2,136	18.6	
2,473	2,378	5.7	
2,589	2,493	0.7	
2,593	2,497	0.6	
2,619	2,523	1.2	
2,623	2,527	1.2	
2,753	2,657	0.4	
2,770	2,674	0.9	
2,793	2,697	1.0	
2,823	2,727	1.4	
2,934	2,838	0.9	
2,953	2,857	0.9	
3,059	2,963	0.6	
3,083	2,987	0.3	
3,128	3,032	0.4	
3,158			
3,160			
3,178			

BHA #3, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
203.00	258.00	55.00	31.50	1.7

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
2	0.44	SMITH	G15BODCPS	MZ0261	4-4-5-	-------

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	244.98	14	10	180	135		

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	244.98
0	Drill pipe - Stands								0.00	244.98
12	DC (6.50 IN)	165.0							149.86	244.98
1	BELL SUB	160.0							0.71	95.12
1	JARS-HYD	166.0							9.21	94.41
1	DC (8.00 IN)	205.0							13.39	85.20
1	DC (8.00 IN)	205.0							13.46	71.81
1	X/O	203.0							0.40	58.35
1	DC (9.00 IN)	240.0							4.42	57.95
1	DC (9.00 IN)	237.0							4.45	53.53
1	STRING STABLIZER	237.0							1.78	49.08
1	DC (9.00 IN)	227.0							9.15	47.30
1	DC (9.00 IN)	227.0							9.14	38.15
1	DC (9.00 IN)	223.0							4.05	29.01
1	SHOCK SUB	227.0							4.22	24.96
1	STRING STABLIZER	239.0							2.07	20.74
1	DC-NM	242.0							9.16	18.67
1	FLOAT SUB	226.0							1.10	9.51
1	MOTOR HS	244.0							7.97	8.41

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	2/20/2010 00:00	2/20/2010 01:52	1.88	203.00	207.00	4.00	2.1	10	180		8,700
Original Hole	2/20/2010 01:52	2/20/2010 11:14	9.38	207.00	227.00	20.00	2.1	10	140		8,700
Original Hole	2/20/2010 12:00	2/20/2010 23:30	11.50	227.00	246.00	19.00	1.7	10	135		9,000
Original Hole	2/21/2010 00:00	2/21/2010 02:11	2.19	246.00	249.00	3.00	1.4	14	135		9,200
Original Hole	2/21/2010 02:11	2/21/2010 08:44	6.56	249.00	258.00	9.00	1.4	11	160		9,200

Mud Checks

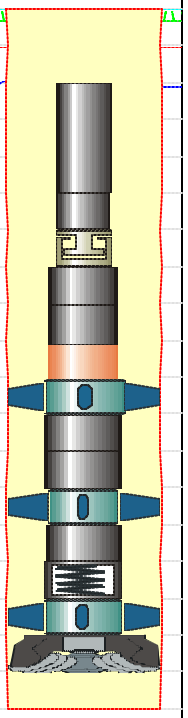
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
2/20/2010	257.00	Gel-Chem	1200.0					
2/21/2010	258.00	Gel-Chem	1200.0			8.0	2.5	

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

Well Config: DIR - Original Hole, 2/19/2010 12:00:00 PM

mKB (MD)	mKB (TVD)	Incl	Schematic - Actual
0	0	0.0	
20	20	0.1	
22	22	0.2	
70	70	0.1	
100	100	1.5	
131	131	1.8	
132	132	1.8	
141	141	1.7	
155	155	2.0	
168	168	2.2	
169	168	2.2	
171	171	2.3	
180	180	2.5	
189	189	2.7	
191	191	2.7	
195	195	2.8	
199	199	2.8	
202	202	2.8	
202	202	2.8	
601	599	3.5	
635	633	2.3	
1,151	1,144	8.5	
1,230	1,222	12.7	
1,475	1,453	25.4	
1,529	1,502	26.5	
1,681	1,639	25.5	
1,837	1,778	27.1	
1,859	1,798	26.4	
1,923	1,856	25.5	
1,948	1,878	24.5	
2,227	2,136	18.6	
2,473	2,378	5.7	
2,589	2,493	0.7	
2,593	2,497	0.6	
2,619	2,523	1.2	
2,623	2,527	1.2	
2,753	2,657	0.4	
2,770	2,674	0.9	
2,793	2,697	1.0	
2,823	2,727	1.4	
2,934	2,838	0.9	
2,953	2,857	0.9	
3,059	2,963	0.6	
3,083	2,987	0.3	
3,128	3,032	0.4	
3,158			
3,160			
3,178			



BHA #2, Drilling Assembly

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)
20.00	202.00	151.00	77.75	1.9

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
1	0.40	HUGHES	PS33	6080265	---	-------

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)
	179.57	15	5	150	80		

Comment

Lay down middle stab 100 mm under gauge

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)
0	Drill pipe - Singles								0.00	179.57
0	Drill pipe - Stands								0.00	179.57
8	DC (6.50 IN)	165.0							108.94	179.57
1	BELL SUB	160.0							0.71	70.63
1	JARS-HYD	166.0							9.21	69.92
1	DC (8.00 IN)	205.0							13.39	60.71
1	DC (8.00 IN)	205.0							13.46	47.32
1	X/O	203.0							0.40	33.86
1	STRING STABLIZER	237.0							2.40	33.46
1	DC (9.00 IN)	227.0							9.15	31.06
1	DC (9.00 IN)	227.0							9.14	21.91
1	STRING STABLIZER	205.0							1.68	12.77
1	DC (9.00 IN)	223.0							4.05	11.09
1	SHOCK SUB	227.0							4.22	7.04
1	NB STAB	226.0							2.42	2.82

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	2/15/2010 12:00	2/15/2010 13:30	1.50	20.00	24.00	4.00	2.7	5	80		1,000
Original Hole	2/16/2010 00:00	2/16/2010 08:45	8.75	24.00	40.00	16.00	1.8	8	140		3,431
Original Hole	2/16/2010 12:00	2/16/2010 20:45	8.75	55.00	88.00	33.00	3.8	8	150		4,100
Original Hole	2/17/2010 00:00	2/17/2010 11:15	11.25	88.00	110.00	22.00	2.0	8	140		6,200
Original Hole	2/17/2010 12:00	2/17/2010 20:30	8.50	110.00	120.00	10.00	1.2	7	110		7,300
Original Hole	2/18/2010 00:00	2/18/2010 10:45	10.75	120.00	139.00	19.00	1.8	15	80		8,400
Original Hole	2/18/2010 12:00	2/18/2010 19:49	7.82	139.00	155.00	16.00	2.0	12	80		9,140
Original Hole	2/18/2010 19:49	2/18/2010 22:44	2.93	155.00	161.00	6.00	2.0	14	130		9,140
Original Hole	2/19/2010 00:00	2/19/2010 10:45	10.75	161.00	186.00	25.00	2.3	14	130		10,100
Original Hole	2/19/2010 12:00	2/19/2010 12:00	6.75	202.00	202.00	0.00	0.0	14	135		9,200

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
2/18/2010	180.00	Gel-Chem	1070.0	17.0	7.700	8.5	0.3	4.0
2/19/2010	180.00	Gel-Chem	1110.0	19.0	7.200	8.5	0.3	7.0

BHA Detail

Well Name: NALCOR ET AL. SEAMUS # 1.

BHA #1, <Drill String Name?>

Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)

Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
						-------

String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)

Comment

Drill String Components

Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)

Drilling Parameters

Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)

Appendix I

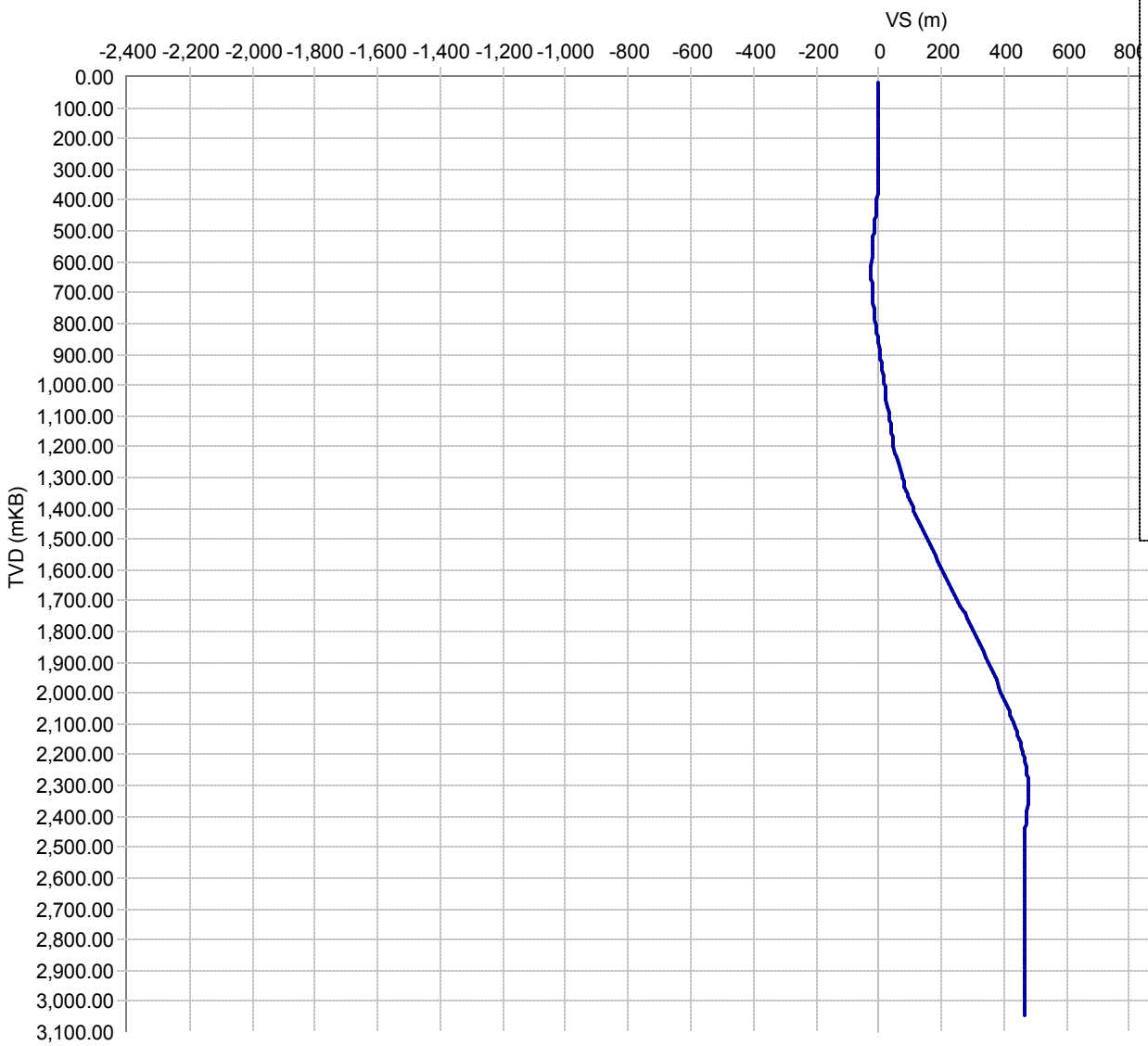
Directional Surveys

Directional Plot

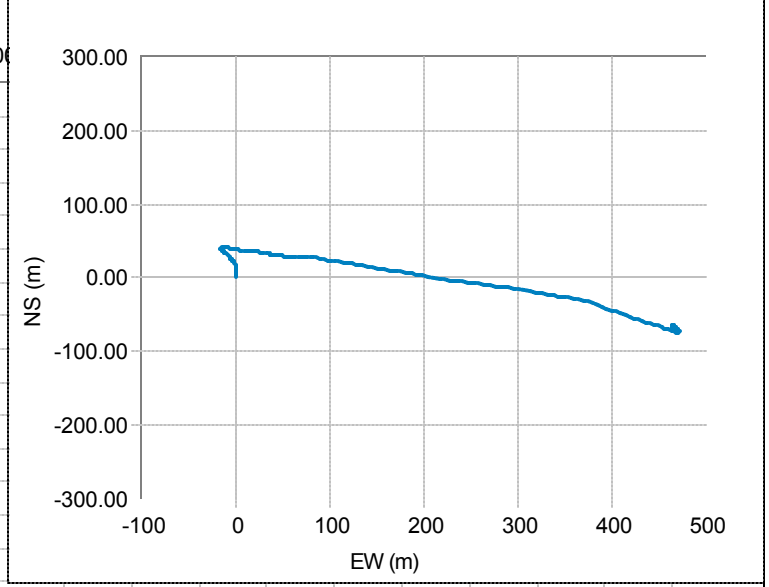
Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	License No.	Well Configuration Type	Ground Elevation (m)	Casing Flange Elevation (m)	KB-Ground Distance (m)	KB-Casing Flange Distance (m)
n/a	49:58:48.40N/057:41:59.10W	3-103	DIR	20.70	20.70	6.30	6.30

Vertical Section



Plan



Directional Survey

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Wellbore Name	Parent Wellbore	Kick Off Depth (mKB)	Vertical Section Direction (°)
Original Hole	Original Hole	70.00	100.00
Date	**Definitive?**	**Description**	**Proposed?**
2/17/2010	No	Ets Dir. survey for Original Hole	No

MD Tie In (mKB)	TVDTie In (mKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (m)	EWTie In (m)

Survey Data

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Method
2/16/2010	19.00	0.07	0.07	19.00	0.00	0.01	0.00	0.11	
2/16/2010	24.00	0.31	0.00	24.00	0.00	0.03	0.00	1.44	
2/16/2010	38.00	0.51	0.00	38.00	-0.02	0.13	0.00	0.43	
2/16/2010	69.00	0.00	0.85	69.00	-0.05	0.27	0.00	0.49	
2/17/2010	97.00	1.50	0.00	97.00	-0.11	0.63	0.00	1.61	
2/17/2010	108.00	1.67	0.00	107.99	-0.16	0.94	0.00	0.46	
2/18/2010	125.00	1.99	0.00	124.98	-0.26	1.48	0.00	0.56	
2/18/2010	138.00	1.67	0.00	137.98	-0.33	1.90	0.00	0.74	
2/19/2010	152.00	1.96	0.00	151.97	-0.41	2.34	0.00	0.62	
2/19/2010	165.00	2.12	0.00	164.96	-0.49	2.80	0.00	0.37	
2/19/2010	193.00	2.80	0.00	192.94	-0.70	4.00	0.00	0.73	
2/20/2010	205.00	2.83	0.00	204.92	-0.80	4.59	0.00	0.07	
2/21/2010	234.00	3.02	0.00	233.88	-1.05	6.07	0.00	0.20	
2/23/2010	257.00	3.10	0.00	256.85	-1.27	7.30	0.00	0.10	
2/24/2010	278.00	3.80	0.00	277.81	-1.49	8.56	0.00	1.00	
2/24/2010	305.00	4.55	0.00	304.74	-1.83	10.53	0.00	0.83	
2/24/2010	331.00	5.69	0.00	330.64	-2.23	12.85	0.00	1.32	
2/25/2010	358.00	6.77	0.00	357.48	-2.74	15.78	0.00	1.20	
2/25/2010	375.00	7.74	0.00	374.34	-3.11	17.93	0.00	1.71	

WellView

Directional Survey

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Wellbore Name	Parent Wellbore	Kick Off Depth (mKB)	Vertical Section Direction (°)
Original Hole	Original Hole	70.00	100.00
Date	**Definitive?**	**Description**	**Proposed?**
2/16/2010	No	Ets Dir. survey for Original Hole	No

MD Tie In (mKB)	TVDTie In (mKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (m)	EWTie In (m)

Survey Data

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Method
2/16/2010	19.00	0.07	0.07	19.00	0.00	0.01	0.00	0.11	
2/16/2010	24.00	0.31	0.00	24.00	0.00	0.03	0.00	1.44	
2/16/2010	38.00	0.51	0.00	38.00	-0.02	0.13	0.00	0.43	
2/16/2010	69.00	0.00	0.85	69.00	-0.05	0.27	0.00	0.49	
2/17/2010	97.00	1.50	0.00	97.00	-0.11	0.63	0.00	1.61	
2/17/2010	108.00	1.67	0.00	107.99	-0.16	0.94	0.00	0.46	
2/18/2010	125.00	1.99	0.00	124.98	-0.26	1.48	0.00	0.56	
2/18/2010	138.00	1.67	0.00	137.98	-0.33	1.90	0.00	0.74	
2/19/2010	152.00	1.96	0.00	151.97	-0.41	2.34	0.00	0.62	
2/19/2010	165.00	2.12	0.00	164.96	-0.49	2.80	0.00	0.37	
2/19/2010	193.00	2.80	0.00	192.94	-0.70	4.00	0.00	0.73	
2/20/2010	205.00	2.83	0.00	204.92	-0.80	4.59	0.00	0.07	
2/21/2010	234.00	3.02	0.00	233.88	-1.05	6.07	0.00	0.20	
2/23/2010	249.00	3.10	0.00	248.86	-1.19	6.87	0.00	0.16	
2/23/2010	257.00	3.10	0.00	256.85	-1.27	7.31	0.00	0.00	
2/24/2010	276.00	3.81	0.00	275.82	-1.47	8.45	0.00	1.12	
2/24/2010	278.00	3.80	0.00	277.81	-1.49	8.58	0.00	0.15	
2/24/2010	305.00	4.55	0.00	304.74	-1.83	10.55	0.00	0.83	
2/24/2010	305.00	4.55	0.00	304.74	-1.83	10.55	0.00	0.83	
2/25/2010	331.00	5.69	0.00	330.63	-2.23	12.87	0.00	1.32	
2/24/2010	331.00	5.69	0.00	330.63	-2.23	12.87	0.00	1.32	
2/26/2010	358.00	6.77	0.00	357.47	-2.74	15.80	0.00	1.20	
2/25/2010	358.00	6.77	0.00	357.47	-2.74	15.80	0.00	1.20	
2/26/2010	375.00	7.47	0.00	374.34	-3.11	17.91	0.00	1.24	
2/25/2010	375.00	7.74	0.00	374.34	-3.11	17.91	0.00	1.24	
2/27/2010	382.69	7.93	329.00	381.97	-3.55	18.88	-0.27	16.31	MWD
2/28/2010	396.69	7.86	330.59	395.83	-4.79	20.54	-1.24	0.49	MWD
2/28/2010	396.69	7.86	330.59	395.83	-4.79	20.54	-1.24	0.49	
2/28/2010	410.80	8.01	327.47	409.81	-6.07	22.21	-2.24	0.97	MWD
2/28/2010	410.80	8.01	327.47	409.81	-6.07	22.21	-2.24	0.97	MWD
2/28/2010	424.00	8.06	326.35	422.88	-7.33	23.76	-3.25	0.37	MWD
2/28/2010	424.00	8.06	326.35	422.88	-7.33	23.76	-3.25	0.37	MWD
2/28/2010	438.29	8.28	323.55	437.02	-8.76	25.42	-4.42	0.95	MWD
3/1/2010	451.53	8.47	321.10	450.12	-10.19	26.94	-5.60	0.92	MWD
3/1/2010	465.01	8.27	320.24	463.46	-11.68	28.46	-6.84	0.53	MWD
3/2/2010	478.73	8.09	319.89	477.04	-13.17	29.96	-8.09	0.41	MWD
3/2/2010	492.34	7.88	319.20	490.52	-14.63	31.40	-9.32	0.51	MWD
3/3/2010	505.96	7.51	319.49	504.01	-16.04	32.78	-10.51	0.82	
3/3/2010	519.56	6.16	318.75	517.52	-17.29	34.00	-11.57	2.98	
3/3/2010	533.50	5.77	318.68	531.38	-18.42	35.09	-12.52	0.84	
3/4/2010	546.89	4.65	320.87	544.72	-19.36	36.02	-13.31	2.55	
3/4/2010	560.43	4.24	319.19	558.22	-20.16	36.82	-13.98	0.95	
3/5/2010	574.31	4.23	317.05	572.06	-20.97	37.59	-14.67	0.34	
3/5/2010	583.19	4.26	314.50	580.91	-21.50	38.06	-15.12	0.65	
3/9/2010	615.77	2.93	332.12	613.43	-23.01	39.64	-16.38	1.58	
3/9/2010	629.45	2.12	9.29	627.10	-23.23	40.20	-16.50	3.91	
3/9/2010	643.10	2.52	48.65	640.74	-23.05	40.65	-16.23	3.53	
3/10/2010	657.08	3.26	67.50	654.70	-22.52	41.00	-15.64	2.56	
3/11/2010	670.69	3.94	71.68	668.28	-21.78	41.30	-14.83	1.61	
3/11/2010	689.22	4.82	71.74	686.76	-20.53	41.74	-13.49	1.42	
3/11/2010	698.14	5.18	74.22	695.64	-19.84	41.97	-12.75	1.41	
3/11/2010	711.28	4.79	79.71	708.73	-18.79	42.23	-11.64	1.41	
3/12/2010	725.22	4.18	91.02	722.63	-17.74	42.32	-10.56	2.31	
3/12/2010	738.52	4.18	108.15	735.90	-16.79	42.16	-9.61	2.81	

WellView

Directional Survey

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Survey Data

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Method
3/12/2010	752.77	4.69	120.16	750.10	-15.73	41.71	-8.61	2.22	
3/12/2010	766.77	5.13	119.06	764.05	-14.60	41.12	-7.57	0.96	
3/12/2010	780.21	6.09	118.15	777.43	-13.35	40.49	-6.42	2.15	
3/13/2010	794.02	6.59	109.14	791.15	-11.87	39.88	-5.02	2.42	
3/13/2010	807.99	7.48	103.41	805.02	-10.17	39.41	-3.38	2.43	
3/13/2010	821.19	8.53	101.96	818.09	-8.34	39.01	-1.59	2.43	
3/13/2010	834.94	8.61	99.89	831.69	-6.29	38.62	0.42	0.70	
3/13/2010	848.40	8.67	100.94	844.99	-4.27	38.26	2.41	0.38	
3/14/2010	862.22	8.27	97.25	858.66	-2.23	37.93	4.42	1.46	
3/15/2010	889.67	8.45	92.89	885.82	1.74	37.58	8.39	0.72	
3/15/2010	903.66	8.48	95.26	899.66	3.79	37.44	10.45	0.75	
3/15/2010	917.42	8.67	95.71	913.27	5.83	37.24	12.49	0.44	
3/15/2010	930.65	8.65	98.91	926.34	7.82	36.99	14.47	1.09	
3/15/2010	944.65	8.71	98.20	940.18	9.94	36.67	16.55	0.26	
3/15/2010	958.26	8.62	98.43	953.64	11.98	36.37	18.58	0.21	
3/15/2010	972.06	8.16	100.26	967.29	14.00	36.05	20.57	1.16	
3/15/2010	985.55	7.82	101.39	980.65	15.87	35.70	22.41	0.83	
3/15/2010	999.80	7.61	99.35	994.77	17.79	35.35	24.29	0.73	
3/15/2010	1,013.24	7.40	99.99	1,008.10	19.54	35.06	26.02	0.50	
3/16/2010	1,025.18	7.55	104.01	1,019.94	21.09	34.73	27.54	1.37	
3/17/2010	1,052.56	8.31	102.66	1,047.05	24.86	33.87	31.22	0.86	
3/18/2010	1,079.38	8.86	103.59	1,073.57	28.86	32.96	35.12	0.63	
3/18/2010	1,093.18	9.13	104.55	1,087.20	31.01	32.43	37.21	0.67	
3/19/2010	1,106.82	9.17	101.75	1,100.67	33.18	31.94	39.32	0.98	
3/19/2010	1,120.21	9.07	99.71	1,113.89	35.30	31.54	41.41	0.76	
3/19/2010	1,133.80	9.05	99.80	1,127.31	37.44	31.18	43.51	0.05	
3/20/2010	1,147.67	8.62	99.74	1,141.02	39.57	30.82	45.61	0.93	
3/20/2010	1,160.70	8.33	101.62	1,153.90	41.49	30.46	47.50	0.92	
3/20/2010	1,175.20	8.81	105.47	1,168.24	43.65	29.95	49.60	1.55	
3/20/2010	1,188.39	9.68	99.51	1,181.26	45.76	29.50	51.67	2.94	
3/21/2010	1,202.49	10.81	97.77	1,195.14	48.27	29.13	54.15	2.49	
3/21/2010	1,229.49	12.68	92.84	1,221.57	53.74	28.64	59.62	2.36	
3/21/2010	1,243.34	13.58	91.00	1,235.06	56.85	28.53	62.76	2.15	
3/22/2010	1,259.04	14.53	89.81	1,250.29	60.61	28.51	66.57	1.90	
3/23/2010	1,305.00	16.73	95.10	1,294.55	72.88	27.94	78.93	1.71	
3/23/2010	1,312.15	16.91	96.80	1,301.39	74.94	27.73	80.99	2.20	
3/24/2010	1,325.67	17.52	98.69	1,314.31	78.94	27.18	84.95	1.84	
3/24/2010	1,339.76	18.06	101.20	1,327.72	83.24	26.44	89.19	2.00	
3/24/2010	1,353.44	18.58	103.71	1,340.71	87.54	25.51	93.39	2.07	
3/25/2010	1,368.15	19.36	104.00	1,354.62	92.31	24.37	98.03	1.60	
3/26/2010	1,375.02	19.16	102.95	1,361.11	94.57	23.84	100.23	1.75	
3/26/2010	1,389.48	20.19	102.53	1,374.72	99.43	22.77	104.98	2.16	
3/26/2010	1,401.73	21.14	101.42	1,386.18	103.75	21.87	109.21	2.52	
3/27/2010	1,416.00	22.16	101.13	1,399.45	109.02	20.84	114.37	2.16	
3/28/2010	1,424.94	22.79	101.48	1,407.71	112.43	20.17	117.73	2.16	
3/28/2010	1,438.47	23.60	101.26	1,420.14	117.76	19.12	122.95	1.81	
3/28/2010	1,452.15	24.49	101.08	1,432.64	123.33	18.04	128.42	1.96	
3/28/2010	1,465.88	25.42	101.44	1,445.08	129.13	16.91	134.10	2.06	
3/28/2010	1,479.79	25.46	101.70	1,457.65	135.10	15.71	139.95	0.26	
3/29/2010	1,493.31	25.34	102.42	1,469.86	140.89	14.50	145.62	0.74	
3/29/2010	1,507.03	25.70	102.15	1,482.24	146.80	13.24	151.40	0.83	
3/29/2010	1,520.75	26.33	100.58	1,494.57	152.82	12.06	157.30	2.04	
3/29/2010	1,534.57	26.67	102.25	1,506.94	158.98	10.84	163.34	1.78	
3/30/2010	1,548.39	26.56	101.99	1,519.29	165.17	9.54	169.40	0.35	
3/30/2010	1,561.88	25.59	102.80	1,531.41	171.09	8.26	175.19	2.30	
3/31/2010	1,575.03	25.74	103.32	1,543.26	176.78	6.98	180.74	0.62	
3/31/2010	1,588.84	25.78	103.65	1,555.70	182.77	5.58	186.57	0.32	
3/31/2010	1,602.63	25.57	102.76	1,568.13	188.73	4.21	192.39	0.96	
3/31/2010	1,616.40	25.89	102.71	1,580.53	194.70	2.89	198.22	0.70	
4/1/2010	1,630.03	26.19	101.37	1,592.78	200.68	1.65	204.07	1.45	

Directional Survey

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Survey Data

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Method
4/1/2010	1,658.14	25.49	100.33	1,618.08	212.93	-0.66	216.10	0.89	
4/1/2010	1,671.30	25.51	100.70	1,629.96	218.60	-1.70	221.67	0.37	
4/2/2010	1,685.60	25.53	100.32	1,642.86	224.76	-2.82	227.73	0.35	
4/2/2010	1,714.97	25.77	99.55	1,669.34	237.47	-5.01	240.25	0.42	
4/3/2010	1,728.76	26.23	100.08	1,681.73	243.52	-6.04	246.21	1.12	
4/3/2010	1,742.77	26.47	99.13	1,694.29	249.74	-7.08	252.34	1.04	
4/3/2010	1,755.75	26.62	99.24	1,705.90	255.54	-8.01	258.07	0.36	
4/3/2010	1,769.54	26.97	99.54	1,718.21	261.75	-9.02	264.20	0.82	
4/3/2010	1,784.52	27.19	99.14	1,731.55	268.57	-10.13	270.93	0.57	
4/4/2010	1,796.83	26.39	100.74	1,742.54	274.12	-11.08	276.39	2.62	
4/4/2010	1,810.97	26.30	100.29	1,755.21	280.39	-12.23	282.56	0.46	
4/4/2010	1,824.85	26.61	100.48	1,767.63	286.58	-13.34	288.65	0.69	
4/4/2010	1,838.89	27.12	101.13	1,780.16	292.92	-14.53	294.88	1.26	
4/5/2010	1,852.12	26.44	102.35	1,791.97	298.88	-15.75	300.71	1.98	
4/5/2010	1,879.37	26.36	101.52	1,816.38	310.99	-18.25	312.57	0.42	
4/5/2010	1,892.37	26.37	101.13	1,828.03	316.76	-19.38	318.23	0.40	
4/7/2010	1,909.91	26.05	102.64	1,843.76	324.50	-20.98	325.81	1.27	
4/7/2010	1,924.00	25.45	102.32	1,856.45	330.62	-22.30	331.79	1.31	
4/7/2010	1,937.84	24.76	101.27	1,868.98	336.49	-23.50	337.53	1.78	
4/8/2010	1,951.26	24.42	101.60	1,881.19	342.07	-24.61	343.01	0.82	
4/8/2010	1,965.67	23.89	101.40	1,894.34	347.96	-25.79	348.78	1.12	
4/8/2010	1,979.15	23.61	101.58	1,906.67	353.39	-26.87	354.11	0.64	
4/9/2010	1,993.00	23.06	102.87	1,919.39	358.87	-28.03	359.47	1.63	
4/9/2010	2,006.38	22.87	103.70	1,931.71	364.08	-29.23	364.55	0.84	
4/9/2010	2,020.16	22.77	105.47	1,944.41	369.41	-30.57	369.72	1.51	
4/11/2010	2,033.84	22.93	109.75	1,957.02	374.67	-32.18	374.78	3.66	
4/13/2010	2,062.24	22.90	115.37	1,983.18	385.45	-36.42	384.98	2.31	
4/13/2010	2,075.95	22.95	116.43	1,995.81	390.59	-38.75	389.78	0.91	
4/13/2010	2,089.60	23.23	116.00	2,008.37	395.73	-41.11	394.59	0.72	
4/13/2010	2,103.19	23.24	115.48	2,020.85	400.89	-43.44	399.42	0.45	
4/14/2010	2,116.95	23.10	115.32	2,033.50	406.11	-45.77	404.31	0.33	
4/14/2010	2,130.53	22.96	115.40	2,046.00	411.23	-48.04	409.11	0.32	
4/14/2010	2,144.25	22.64	114.19	2,058.65	416.37	-50.27	413.93	1.24	
4/15/2010	2,158.03	22.15	113.07	2,071.39	421.48	-52.38	418.74	1.41	
4/17/2010	2,172.11	21.69	112.53	2,084.45	426.60	-54.41	423.59	1.07	
4/17/2010	2,185.79	20.98	113.43	2,097.19	431.45	-56.36	428.17	1.71	
4/17/2010	2,199.58	20.11	112.74	2,110.11	436.16	-58.25	432.62	1.96	
4/18/2010	2,213.18	19.38	111.93	2,122.91	440.65	-60.00	436.87	1.72	
4/18/2010	2,226.48	18.67	112.24	2,135.48	444.89	-61.63	440.89	1.62	
4/18/2010	2,240.42	17.97	112.60	2,148.71	449.17	-63.30	444.94	1.53	
4/18/2010	2,254.70	17.34	113.79	2,162.32	453.39	-65.01	448.92	1.53	
4/19/2010	2,268.05	16.48	114.78	2,175.09	457.15	-66.60	452.46	2.04	
4/19/2010	2,281.74	15.62	114.97	2,188.25	460.81	-68.19	455.89	1.89	
4/19/2010	2,288.06	15.26	116.08	2,194.34	462.43	-68.92	457.41	2.21	
4/27/2010	2,301.12	14.44	116.81	2,206.97	465.64	-70.41	460.41	1.93	
4/27/2010	2,315.09	12.39	113.31	2,220.55	468.77	-71.79	463.34	4.73	
4/27/2010	2,331.54	9.11	107.35	2,236.71	471.78	-72.87	466.20	6.31	
4/27/2010	2,342.72	7.51	105.77	2,247.78	473.38	-73.34	467.75	4.34	
4/27/2010	2,356.47	6.03	101.89	2,261.43	475.00	-73.73	469.32	3.38	
4/27/2010	2,369.89	4.16	95.35	2,274.80	476.19	-73.92	470.50	4.37	
4/28/2010	2,383.42	2.33	68.57	2,288.31	476.91	-73.87	471.24	5.17	
4/28/2010	2,410.90	3.38	356.56	2,315.76	477.20	-72.85	471.72	3.78	
4/28/2010	2,423.94	4.37	346.18	2,328.77	476.91	-71.99	471.57	2.78	
4/28/2010	2,438.59	5.06	339.90	2,343.37	476.36	-70.84	471.22	1.76	
4/29/2010	2,451.95	5.00	332.84	2,356.68	475.71	-69.77	470.75	1.40	
4/30/2010	2,479.54	5.97	303.34	2,384.15	473.67	-67.91	469.00	3.20	
4/30/2010	2,492.90	7.43	305.26	2,397.42	472.25	-67.03	467.72	3.32	
4/30/2010	2,506.50	7.39	310.98	2,410.90	470.70	-65.95	466.34	1.63	
4/30/2010	2,520.56	5.88	314.92	2,424.87	469.34	-64.84	465.15	3.36	
4/30/2010	2,534.35	3.58	316.37	2,438.61	468.41	-64.03	464.35	5.01	

Directional Survey

Well Name: NALCOR ET AL. SEAMUS # 1.

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
n/a	49:58:48.40N/057:41:59.10W	Parsons Pond	3-103	Newfoundland	DIR
Ground Elevation (m)	**Casing Flange Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**Spud Date**	**Rig Release Date**
20.70	20.70	6.30	6.30	2/15/2010 10:30:00 PM	5/22/2010 12:00:00 PM

Survey Data

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Method
4/30/2010	2,547.70	1.70	305.12	2,451.94	467.90	-63.62	463.90	4.36	
5/1/2010	2,561.69	1.01	256.52	2,465.93	467.60	-63.53	463.61	2.75	
5/1/2010	2,575.28	0.82	257.81	2,479.52	467.40	-63.58	463.40	0.42	
5/1/2010	2,589.30	0.66	275.02	2,493.54	467.22	-63.59	463.22	0.58	
5/1/2010	2,606.82	0.53	31.99	2,511.06	467.15	-63.51	463.16	1.74	
5/1/2010	2,616.22	1.16	87.33	2,520.46	467.26	-63.47	463.28	3.07	
5/1/2010	2,630.32	1.31	95.85	2,534.55	467.56	-63.48	463.58	0.50	
5/1/2010	2,644.12	1.63	117.11	2,548.35	467.91	-63.59	463.91	1.36	
5/1/2010	2,657.58	1.02	120.86	2,561.81	468.20	-63.74	464.19	1.37	
5/2/2010	2,671.17	0.46	39.74	2,575.39	468.34	-63.76	464.33	2.32	
5/2/2010	2,684.94	1.11	352.26	2,589.16	468.33	-63.58	464.34	1.89	
5/2/2010	2,698.13	1.39	350.46	2,602.35	468.24	-63.30	464.30	0.64	
5/2/2010	2,712.08	1.40	339.12	2,616.30	468.09	-62.97	464.21	0.59	
5/2/2010	2,725.58	1.02	344.00	2,629.79	467.96	-62.70	464.12	0.87	
5/2/2010	2,740.03	0.29	317.90	2,644.24	467.87	-62.55	464.06	1.60	
5/3/2010	2,754.05	0.40	147.88	2,658.26	467.87	-62.57	464.06	1.47	
5/3/2010	2,767.73	0.84	157.71	2,671.94	467.96	-62.70	464.12	0.99	
5/3/2010	2,781.05	1.05	149.86	2,685.26	468.09	-62.89	464.22	0.55	
5/4/2010	2,794.31	1.00	160.99	2,698.52	468.23	-63.11	464.32	0.46	
5/4/2010	2,807.94	1.35	157.30	2,712.14	468.37	-63.37	464.42	0.79	
5/4/2010	2,821.66	1.37	162.73	2,725.86	468.53	-63.67	464.53	0.29	
5/5/2010	2,836.00	1.30	193.00	2,740.20	468.60	-64.00	464.55	1.47	
5/6/2010	2,849.00	1.30	195.00	2,753.19	468.58	-64.28	464.48	0.10	
5/6/2010	2,863.00	1.30	195.00	2,767.19	468.55	-64.59	464.39	0.00	
5/6/2010	2,877.00	1.20	195.00	2,781.19	468.53	-64.89	464.31	0.21	
5/6/2010	2,891.00	1.00	193.00	2,795.18	468.51	-65.15	464.25	0.44	
5/7/2010	2,905.00	1.30	215.00	2,809.18	468.44	-65.39	464.13	1.13	
5/8/2010	2,917.00	1.30	205.00	2,821.18	468.34	-65.63	463.99	0.57	
5/8/2010	2,946.00	0.70	211.00	2,850.17	468.19	-66.08	463.76	0.63	
5/8/2010	2,959.00	1.00	209.00	2,863.17	468.13	-66.25	463.67	0.70	
5/9/2010	2,983.00	0.90	211.00	2,887.17	467.99	-66.59	463.47	0.13	
5/10/2010	2,996.00	1.00	209.00	2,900.17	467.92	-66.78	463.36	0.24	
5/10/2010	3,000.00	0.90	192.00	2,904.17	467.91	-66.84	463.34	2.23	
5/10/2010	3,013.00	0.80	174.00	2,917.16	467.93	-67.03	463.33	0.65	
5/11/2010	3,037.00	0.40	211.00	2,941.16	467.94	-67.27	463.30	0.67	
5/11/2010	3,041.00	0.40	159.00	2,945.16	467.95	-67.29	463.30	2.63	
5/11/2010	3,055.00	0.60	222.00	2,959.16	467.93	-67.39	463.27	1.18	
5/11/2010	3,078.00	0.70	201.00	2,982.16	467.84	-67.61	463.14	0.33	
5/13/2010	3,079.00	0.30	247.00	2,983.16	467.84	-67.62	463.13	16.11	
5/13/2010	3,093.00	0.20	148.00	2,997.16	467.82	-67.66	463.11	0.83	
5/14/2010	3,107.00	0.50	234.00	3,011.16	467.80	-67.71	463.08	1.13	
5/14/2010	3,112.00	0.30	154.00	3,016.16	467.79	-67.74	463.06	3.22	
5/14/2010	3,135.00	0.50	166.00	3,039.16	467.87	-67.89	463.11	0.28	
5/14/2010	3,147.00	1.00	200.00	3,051.16	467.87	-68.04	463.09	1.62	

Appendix J

Daily Geological Reports

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-18	1

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	130.63m	130.63.x	28.0 m	Lower Head	Drilling ahead @ 132.0m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	3.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
108m	$1.67^{0\circ}$							

Summary of Previous 24 Hours

Continue to drill ahead from 102m to 120m. Wireline surveys, single shot. POOH to change BHA & add another Stabilizer. RIH with same Hughes Tri-Cone bit and new BHA. Drill ahead from 120m to 130m. Increase WOB to 10 to 13kDaN with new BHA.

Operations Forecast (next 24 Hours)

Continue to drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1050kg/m3	48	$6.8m^3$	13/5.7	200mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 640@20.0m Next casing(size/Depth)340@640m
1	444.5	Baker Hughes Tri-Cone	23m	54.9	1.5	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
100 to 115	1.5	2.5	0.5	80% Ss+20% Sh
115 to 130	2.3	5.2	0.7	70% Ss+20% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	xxx	xx	xx	xx	xx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=xx.xxm; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-02-18	Roland Strickland

Interval & Thickness	Description
	Humber Arm Allochton Formation
20 - 25	**Limestone: 100%,** off white, buff, crypto crystalline, hard, brittle, tight, no shows.
	Lower Head Formation
25 – 30 5m	**Sandstone: 60%,** clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows **Shale: 20%,** medium to dark grey, grey green, firm to hard, in part brittle, platy. **Limestone: 20%,**: off white, buff, crypto crystalline, hard, brittle, tight, no shows.
30 – 35 5m	**Shale: 50%,** medium to dark grey, grey green, firm to hard, in part brittle, platy. **Sandstone: 50%,** clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.
35 – 50 15m	**Sandstone: 50%,** clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 50%,** medium to dark grey, grey green, firm to hard, in part brittle, platy.

50 to 55 5m	**Shale: 70%,** medium to dark grey, grey green, firm to hard, in part brittle, platy. **Sandstone: 30%,** clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.
55 to 60 5m	**Sandstone: 80%,** clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, trace light brown limestone fragments, 8 to 12% inferred porosity, no shows. **Shale: 20%,** medium to dark grey, grey green, firm to hard, in part brittle, platy.
60 to 65 5m	**Sandstone: 60%,** clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 40%,** medium to dark grey, grey green, firm to hard, in part brittle, platy.
65 to 75 10m	**Sandstone: 80%,** clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 20%,** medium to dark grey, grey green, firm to hard, in part brittle, platy.
75 to 100 25m	**Sandstone: 70%,** clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 30%,** medium to dark grey, grey green, firm to hard, in part brittle, platy, non calcareous.
100 to 120 20m	**Sandstone: 80%,** salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite 8 to 12% inferred porosity, no shows. **Shale: 20%,** medium to dark grey, grey green, firm to hard, in part brittle, blocky to platy.

120 to 130 20m	**Sandstone: 70%,** salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite and light brown limestone fragments, 8 to 12% inferred porosity, no shows. **Shale: 30%,** medium to dark grey, grey green, firm to hard, in part brittle, blocky to platy.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-19	2

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	176.8m	176.8	46.2 m	Lower Head	Drilling ahead @ 178.0m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	4.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
125m	1.99^0							
138m	$1.67^{0\circ}$							
152m	1.96^0							

Summary of Previous 24 Hours

Continue to drill ahead from 130m to 176m. Wireline surveys, single shot. Increase WOB from 10 to 18kDaN with new BHA.

Operations Forecast (next 24 Hours)

Continue to drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1090kg/ m3	48	6.4m^3	15/6.2	300mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
1	444.5	Baker Hughes PS33 Tri-Cone	23m	76.7	2.61	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
130 to 161	2.52	5.1	1.5	75% Ss+25% Sh
161 to 176	2.72	6.1	1.9	90% Ss+10% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.86	0.8	0.04	0.02	0.006		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=xx.xxm; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-02-19	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
130 – 135 5m	**Sandstone: 70%,** salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard, indurated, frequent orange feldspar, and dark lithic fragments, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite 8 to 12% inferred porosity, no shows. **Shale: 30%,** medium to dark grey, grey green, firm to hard, in part brittle, platy, non calcareous.
135 – 150 15m	**Sandstone: 80%,** salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard to firm, moderate indurated, abundant orange feldspar, and dark lithic fragments, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 20%,** medium to dark grey, grey green, firm to hard, in part brittle, platy, non calcareous.
150 – 165 15m	**Sandstone: 90%,** salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard to firm, moderate indurated, abundant orange feldspar, and dark lithic fragments, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 10%,** medium to dark grey, grey green, firm to hard, in part brittle, platy to blocky, silty, non calcareous.
165 – 175 10m	**Sandstone: 80%,** salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, firm, slightly indurated, frequent orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, frequent bronze mica, trace green sericitized serpentine, trace fine disseminated pyrite, granite like texture, 8 to 12% inferred porosity, no shows.

	Shale: 20%, medium to dark grey, grey green, firm to hard, in part brittle, platy to blocky, silty, non calcareous.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-20	3

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	219.0m	219.0	42.2 m	Lower Head	Drilling ahead @ 222.0m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	5.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
152m	1.96^0							
165m	$2.12^{0\circ}$							
193m	2.80^0							

Summary of Previous 24 Hours

Continue to drill ahead from 176m to 202m. Wireline surveys, single shot. WOB from 15 to 20kDaN. POOH at 202m because of ratty torque and change Baker Hughes Tri-Cone Bit. Lay down middle Stab (100mm under gauge). Bit # 1 Grading: 3-8-FC-A-E-2mm-WT-HR.

Operations Forecast (next 24 Hours)

RIH with new Smith Tri-Cone Bit and continue to drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1110kg/ m3	52	$0.0m^3$	19/7.2	250mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
1	444.5	Baker Hughes PS33 Tri-Cone	23m	86.5	3.03	
2	444.5	Smith G15BOD Tri-Cone	202	10.5	2.6	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
176 to 210	3.10	7.7	1.9	75% Ss+25% Sh
210 to 219	2.34	2.7	2.0	80% Ss+20% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=xx.xxm; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-02-20	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
175 – 185 10m	**Sandstone: 80%,** salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, frequent orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, frequent bronze mica, frequent green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 20%,** medium to dark grey, grey green, firm to hard, in part brittle, platy to blocky, silty, non calcareous.
185 – 210 20m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, trace orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows. **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, silty, occasional fine grained disseminated pyrite, non calcareous.
210 – 220 10m	**Sandstone: 80%,** salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, occasional orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows. **Shale: 20%,** medium dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, silty, micro micaceous non calcareous.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-21	4

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	255.0m	255.0	36.0 m	Lower Head	Drilling ahead @ 258.0m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	6.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
193m	2.80^{0}							
205m	2.83^{0}							
234m	3.02^{0}							

Summary of Previous 24 Hours

Continue to drill ahead from 219m to 255m. Wireline surveys, single shot. WOB from 12 to 15kDaN.

Operations Forecast (next 24 Hours)

Preparing to make up new BHA and down hole mud motor to increase ROP.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1180kg/ m3	49	8.0cm^3	19/7.2	250mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
2	444.5	Smith G15BOD Tri-Cone	202	30.6	2.00	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
219 to 250	1.97	5.8	1.4	75% Ss+25% Sh
250 to 255	1.50	2.5	1.2	80% Ss+20% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=xx.xxm; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-02-21	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
220 – 225 5m	**Sandstone: 80%,** salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, frequent orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, frequent bronze mica, frequent green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 20%,** medium to dark grey, grey green, firm to hard, in part brittle, platy to blocky, silty, non calcareous.
225 – 250 25m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.
250 – 255 5m	**Sandstone: 80%,** salt & pepper, light to medium grey, clear, off white, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, abundant orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, occasional light brown limestone fragments, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks, trace slickenside.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-22	5

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	258.0m	258.0	3.0 m	Lower Head	Well static. Waiting on 3rd party fishing tools

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	7.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
193m	2.80^0							
205m	$2.83^{0\circ}$							
234m	3.02^0							

Summary of Previous 24 Hours

Continue to drill ahead to 258m. POOH to change out BHA. Layout under gauge stabilizer & near bit stabilizer. Pick up BHA & RIH with mud motor, 2 stabilizers, 1 non mag drill collar & 2 pony collars. Attempted to drill ahead by increasing pump rates, increasing weight on bit, & rotary RPM ranging from 30 – 80. Experienced high Torque and no differential pressure. Attempted to drill by increasing pump strokes & adjusting rotary RPM. POOH because unable to drill ahead and discovered shock sub had come apart, leaving 24m fish in the hole.

Operations Forecast (next 24 Hours)

Wait on third party Fishing Tools. Rig up & RIH with fishing assembly and retrieve 24m fish.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1120kg/m3	45	7.5cm^3	16/5.3	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
2	444.5	Smith G15BOD Tri-Cone	202	32.8	2.10	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
255 to 258	1.43	1.6	1.2	80% Ss+20% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=xx.xxm; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-25	6

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	334.0m	334.0	76.0 m	Lower Head	Drilling ahead @ 337m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	10.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
234m	3.02^0						
257m	3.10^0						
276m	3.81^0						
305m	4.55^0						

Summary of Previous 24 Hours

Retrieve 24m Fish after 2 attempts. Change out Smith Bit # 2: grading: 4-4-FC-A-E-2mm-BHA. Make up new Hughes Bit #3, mud motor and RIH. Drill ahead to 314m. POOH to move Stabilizer higher in the BHA. Lay down BHA and pick up new BHA: HUGHES GTX-40, MOTOR HS, FLOAT SUB, DC-NM, STRING STABLIZER, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. RIH and drill ahead to 334mMD.

Operations Forecast (next 24 Hours)

Continue to drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1150kg/m3	46	$8.0cm^3$	13/3.8	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
2	444.5	Smith G15BOD Tri-Cone	202	65.8	1.74	
3	444.5	Hughes GTX-40 Tri-Cone	258	30.7	2.62	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
258 to 338	5.43	1.6	2.62	80% Ss+20% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**

Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Remarks **MWD Sensors Depths**: Dir=xx.xxm; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-02-25	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
255 – 275 20m	**Sandstone: 80%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.
275 – 285 10m	**Sandstone: 80%,** salt & pepper, light to medium grey, clear, off white, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, abundant orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, occasional light brown limestone fragments, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.
285 – 320 35m	**Sandstone: 80%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.
320 – 335 15m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, very

	argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-26	7

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	372.0m	369.5	38.0 m	Lower Head	Drilling ahead @ 374m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	11.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
257m	3.10^0						
276m	3.81^0						
305m	4.55^0						
358m	6.77^0						

Summary of Previous 24 Hours

Continue to drill ahead to 342m. Condition mud & circulate the hole clean. POOH to pick up stabilizers. Lay down BHA and mud motor because of failed bearings. Pick up new BHA: HUGHES GTX-40, NB STAB, SHOCK SUB, STRING STABLIZER, DC-NM, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. Wash to bottom and drill ahead.

Operations Forecast (next 24 Hours)

Continue to drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1155kg/ m3	47	0.0cm^3	15/6.2	650mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
2	444.5	Smith G15BOD Tri-Cone	202	65.8	1.74	
3	444.5	Hughes GTX-40 Tri-Cone	258	45.9	2.54	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
338 to 345	3.48	5.3	1.90	70% Ss+30% Sh
345 to 372	3.05	5.1	1.80	70% Ss+30% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**		**Actual**

	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Remarks **MWD Sensors Depths**: Dir=xx.xxm; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-02-26	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
335 – 345 10m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
345 – 370 25m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, frequent abundant dark lithic fragments, strongly consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-27	8

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	400.0m	396.8	28.0 m	Lower Head	Making up new BHA

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	12.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
276m	3.81^0							
305m	4.55^0							
358m	6.77^0							
375m	7.47^0							

Summary of Previous 24 Hours

Continue to drill ahead to 378m. Condition mud & circulate the hole clean. Survey @ 375m = 7.47^0 POOH to rearrange BHA to pendulum assembly. HUGHES GTX-40, BIT SUB, SHOCK SUB, DC-NM, DC-PONY, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0IN), Drill pipe - Stands, Drill pipe – Singles. Layout stabilizers and RIH & drill ahead to 400m. POOH and lay down BHA.

Operations Forecast (next 24 Hours)

Make up new BHA with Schlumberger directional tools. RIH and drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1180kg/m3	52	$0.0cm^3$	14/7.2	650mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
3	444.5	Hughes GTX-40 Tri-Cone	258	62.4	2.27	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
372 to 400	2.20	5.1	1.30	75% Ss+25% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=xx.xxm; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-02-27	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
370 – 380 10m	**Sandstone: 80%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
380 – 390 10m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
390 – 395 5m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, frequent light gray with increase orange feldspar, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
395 – 400 5m	**Sandstone: 60%,** salt & pepper, dark to medium grey, clear, frequent light gray with increase orange feldspar, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze

	mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 40%,** dark to medium grey, grey green, reddish brown. firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-02-28	9

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	423.0m	419.4	23.0 m	Lower Head	Drilling ahead

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	13.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
375m	7.47^0							
382.69	7.93^0	329.0^0	381.0					
396.69	7.86^0	330.6^0	394.1					

Summary of Previous 24 Hours

Handle Schlumberger directional tools & pickup motor, float sub, stabilizer, UBHO, MWD tools, & 2 NMDC, scribe mud motor & set mule shoe. RIH & survey every stand. Ream & clean hole from 387m to 400m. Drill ahead to 423m. Bit # 3 IADC bit grading: 4-6-FC-A-E-1.00-WT-BHA.

Operations Forecast (next 24 Hours)

Continue to drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1180kg/ m3	54	$0.0cm^3$	17/9.6	650mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
4	444.5	Reed 5HOA598 Tri-Cone	400.0m	11.2	2.53	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
400 to 423	2.88	6.4	1.90	70% Ss+30% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-02-28	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
400 – 405 5m	**Sandstone: 60%,** salt & pepper, dark to medium grey, clear, frequent light gray with increase orange feldspar, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 40%,** dark to medium grey, grey green, reddish brown. firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
405 – 420 15m	**Sandstone: 70%,** salt & pepper, light to medium grey, occasional dark gray, clear, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments & orange feldspar, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-10	10

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	459.0m	457.6	36.0 m	Lower Head	Make up new BHA & Directional tools

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	14.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
396.69	7.86^0	330.6^0	394.1					
410.80	8.01^0	327.47^0	409.74					
424.95	8.06^0	326.35^0	423.75					
438.29	8.28^0	323.55^0	436.89					

Summary of Previous 24 Hours

Continue to directionally drill ahead and orient toolface. Drilled to 459m with a mud motor with 1.15^0 bend. Unable to drop inclination. POOH to change mud motor with 1.50^0 bend. Layout MWD tools, break off bit & layout monels. Pickup new BHA and mud motor.

Operations Forecast (next 24 Hours)

Handle directional tools, scribe mud motor, RIH and drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1175kg/ m3	46	$0.0cm^3$	14/8.1	750mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
4	444.5	Reed 5HOA598 Tri-Cone	400	25.3	2.36	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
423 to 432	3.16	6.5	1.60	70% Ss+30% Sh
432 to 459	2.60	4.1	1.5	80% Ss+20% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-01	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
420 – 435 15m	**Sandstone: 70%,** salt & pepper, light to medium grey, occasional dark gray, clear, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments & orange feldspar, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, reddish brown. firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
435 – 455 20m	**Sandstone: 80%,** salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-02	11

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	497.0m	495.45	38.0 m	Lower Head	Drilling ahead

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	15.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
438.29	8.28^0	323.55^0	436.89				
451.53	8.47^0	321.10^0	450.05		0.93		
465.01	8.27^0	320.24^0	463.39		0.53		
478.73	8.09^0	319.89^0	476.97		0.41		

Summary of Previous 24 Hours

RIH & shallow test MWD tools. Wash last single to bottom. Orient toolface & drill ahead with BHA: REED 5HOA598-7086, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Operations Forecast (next 24 Hours)

Continue to drill ahead mainly sliding to increase the drop in inclination.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1150kg/ m3	44	0.0cm^3	10/6.2	650mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
4	444.5	Reed 5HOA598 Tri-Cone	400	44.6	2.24	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
459 to 475	2.80	4.4	1.80	80% Ss+20% Sh
475 to 497	2.60	4.0	1.60	70% Ss+30% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-02	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
455 – 470 15m	**Sandstone: 80%,** salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, reddish brown. firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
470 – 485 15m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
485 – 495 10m	**Sandstone: 80%,** salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-03	12

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	526.0m	523.78	29.0 m	Lower Head	Drilling ahead

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	16.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
478.73	8.09^0	319.89^0	476.97	-21.7	0.41	28.31	-17.29
492.34	7.88^0	319.20^0	490.45	-23.15	0.51	29.75	-18.52
505.96	7.51^0	319.49^0	503.94	-24.54	0.82	31.13	-19.70

Summary of Previous 24 Hours

Directionally drilled to 504m. Unable to reduce build @ 8.25^0. POOH and attempt to dial up mud motor to 1.83^0. Unable to break connection. Break out bit # 4 with IADC grading: 1-3-FC-G-E-0-NO-HP. Make up new tooth bit, & RIH and drill ahead to 527mMD.

Operations Forecast (next 24 Hours)

Continue to directionally drill ahead, sliding to decrease the angle of inclination.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1145kg/ m3	46	0.0cm^3	13/7.2	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
4	444.5	Reed 5HOA598 Tri-Cone	400	47.25	2.20	
5	444.5	XRT Tooth Bit	504	13.2	1.89	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
497 to 525	2.35	5.5	2.1	80% Ss+20% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-03	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
495 – 500 5m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
500 – 515 15m	**Sandstone: 80%,** salt & pepper, light to medium grey, frequent dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, trace loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, occasional dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
515 – 525 10m	**Sandstone: 80%,**salt & pepper, mainly light to medium grey, clear, trace dark gray, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 14% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-04	13

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	562.0m	559.68	36.0 m	Lower Head	Drilling ahead

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	17.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
505.96	7.51^0	319.49^0	503.94	-24.54	0.82	31.13	-19.70
519.56	6.16^0	318.75^0	517.45	-25.79	2.98	32.35	-20.76
533.50	5.77^0	318.68^0	531.31	-26.91	0.84	33.44	-21.72

Summary of Previous 24 Hours

Directionally drilled to 562m and drop inclination to 5.77^0. POOH to change bit. IADC bit grading on bit #5 Smith XRT: 3-4-BT-A-E-1.00-RG-HR. Break bit and pull MWD tools
M/U new bit and MWD tools and BHA : Reed 5HOA598+, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles. RIH and shallow test MWD tool.

Operations Forecast (next 24 Hours)

Continue to directionally drill ahead, sliding to decrease the angle of inclination.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1150kg/ m3	57	$0.0cm^3$	16/8.6	850mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@640m
5	444.5	Smith Tooth Bit	504	26.75	2.17	
4rr	444.5	Reed 5HOA598 Tri-Cone	562	1.70	1.77	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
525 to 545	2.91	4.9	1.5	80% Ss+20% Sh
545 to 560	2.77	4.1	2.5	90% Ss+10% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm	0	0		15	15

Allochon (HAA)					
Lower Head	100	100		25	25
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-04	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
525 – 545 20m	**Sandstone: 80%,** salt & pepper, mainly light to medium grey, clear, trace dark gray, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional glauconite grains, 10 to 12% inferred porosity, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
545 – 560 15m	**Sandstone: 90%,** salt & pepper, mainly light to medium grey, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz, frequent orange feldspar, hard to firm, weak indurated, trace dark lithic fragments, weak consolidated with calcareous cement, argillaceous, occasional bronze mica, minor quartz overgrowths, trace glauconite grains, 10 to 14% inferred porosity, no shows. (flysch derived) **Shale: 10%,** dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-05	14

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	601.0m	598.60	39.0 m	Lower Head	POOH to run surface CSG.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	18.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
533.50	5.77^0	318.68^0	531.31	-26.91	0.84	33.44	-21.72
546.89	4.65^0	320.37^0	544.64	-27.84	2.53	34.37	-22.51
560.43	4.24^0	319.19^0	558.14	-28.64	0.93	35.17	-23.19
574.31	4.23^0	317.05^0	571.99	-29.44	0.34	35.93	-23.87
583.19	4.26^0	314.50^0	580.84	-29.97	0.65	36.40	-24.33

Summary of Previous 24 Hours

Directionally drill ahead to 601m. Circulate hole clean, increase viscosity and complete wiper trip. POOH.

Operations Forecast (next 24 Hours)

Continue to POOH and M/U tools to beginning running 340mm Surface Casing.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1150kg/ m3	65	0.0cm^3	19/11.5	900mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@601m
6rr	444.5	Reed 5HOA598 Tri-Cone	562	18.90	2.06	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
560 to 585	2.64	4.9	1.2	90% Ss+10% Sh
585 to 601	2.30	4.1	1.2	70% Ss+30% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
xxxx to xxxx	0.xx	0.x	0.xx	0.xx	0.xxx		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-05	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
560 – 585 25m	**Sandstone: 90%,** clear, light to medium gray, salt & pepper, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, weak indurated, trace dark lithic fragments, weak consolidated with calcareous cement, argillaceous, occasional bronze mica, minor quartz overgrowths, trace glauconite grains, 10 to 14% inferred porosity, no shows. (flysch derived) **Shale: 10%,** dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.
585 – 600 15m	**Sandstone: 70%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived) **Shale: 30%,** dark to medium grey, grey green, frequent reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-09	15

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	620.0m	617.60	19.0 m	Lower Head	Drilling ahead.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	22.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
533.50	5.77^0	318.68^0	531.31	-26.91	0.84		33.44	-21.72
546.89	4.65^0	320.37^0	544.64	-27.84	2.53		34.37	-22.51
560.43	4.24^0	319.19^0	558.14	-28.64	0.93		35.17	-23.19
574.31	4.23^0	317.05^0	571.99	-29.44	0.34		35.93	-23.87
583.19	4.26^0	314.50^0	580.84	-29.97	0.65		36.40	-24.33

Summary of Previous 24 Hours

Pressure test BOP's. Make up new BHA & directional tools & RIH to 360m. Shallow test Directional & MWD tools & pressure test lower pipe rams. Wash in hole to 552m & tag cement @ 579m. Drill out cement, float @ 585.8m, & shoe@ 600.0m. Drill ahead to 605m & perform FIT up to 18kPa. Good test, formation held. Change out mud system & displace to premix gel chemical. Continued to drill ahead to 620m @ 07:00 hrs.

Operations Forecast (next 24 Hours)

Continue to directionally drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1040kg/ m3	45	$0.0cm^3$	7/3.4	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last casing(size/Depth 644@20m Next casing(size/Depth)340@601m
7	311	Smith XR+	601	6.00	3.5	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
601 to 618	4.20	8.5	2.4	70% Ss+30% Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
601 to 618	0.02	0.02	0.001	0.00	0.000		Bkgd gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-09	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
600 – 610 10m	**Sandstone: 50%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived) **Shale: 50%,** dark to medium grey, grey green, abundant reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.
610 – 615 5m	**Sandstone: 80%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived) **Shale: 20%,** dark to medium grey, grey green, frequent reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-10	16

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	663.0m	660.56	43.0 m	Lower Head	RIH @ 249m.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	23.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
583.19	4.26^0	314.50^0	580.84	-29.97	0.65		36.40	-24.33
615.77	2.93^0	332.12^0	613.36	-31.47	1.58		37.99	-25.58
629.45	2.12^0	9.29^0	627.03	-31.68	3.91		38.54	-25.71
643.10	2.52^0	48.65^0	640.66	-31.49	3.53		38.99	-25.44

Summary of Previous 24 Hours

Continued to drill ahead to 663m and directionally survey at ~14m intervals. Condition mud & POOH due to mud motor failure. Flow check @ 659m, 577m & 385m. Handle directional tools, pull MWD tools, lay down mud motor & pick up new one. RIH with same bit & BHA. Shallow test MWD tool. Continue to RIH.

Operations Forecast (next 24 Hours)

RIH to 663m and directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1040kg/ m3	45	0.0cm^3	7/3.4	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
7	311	Smith XR+	601	19.90	3.11	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
618 to 633	3.3	6.4	1.7	Ss+Sh+Ls
633 to 654	3.9	8.5	2.3	Sh+Ls
654 to 663	2.3	3.2	1.7	Sh+Ls+Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
618 to 663 638.6	.004-.10 .03	.08-.003	.005	0.00	0.002	.004	Avg. Bkgd gas=.03 Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone	1060	1060			
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475	1450			
Zone 2 (pos Eagle Island)	1859	1800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-09	Roland Strickland

Interval & Thickness	Description
	Lower Head Formation
615 – 620 5m	**Sandstone: 90%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived) **Shale: 10%,** dark to medium grey, grey green, frequent reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.
620 – 625 5m	**Sandstone: 40%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived) **Shale: 30%,** green gray, red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks **Limestone: 30%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.
625 – 635 10m	**Shale: 70%,** green gray, dark gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite. **Sandstone: 20%,** salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived)

	Limestone: 10%, light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.
635m	**Shallow Bay Formation**
635 – 645 10m	**Shale: 80%,** green gray, dark gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite. **Limestone: 20%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, in part white dolomite slightly sucrosic, tight, no shows.
645 – 660 15m	**Shale: 80%,** green gray, dark gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite. **Dolomite: 10%,** off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional light brown limestone stringers, no visible porosity, no shows. **Limestone: 10%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-12	18

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	755.0m	752.34	58.0 m	Shallow Bay	Drilling ahead @ 758m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	25.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
670.69	3.94^0	71.68^0	668.21	-30.22	1.61		39.64	-24.04
684.22	4.82^0	71.74^0	681.70	-29.30	1.95		39.97	-23.06
698.14	5.18^0	74.22^0	695.57	-28.22	0.90		40.32	-21.90
711.28	4.79^0	79.71^0	708.66	-27.16	1.41		40.58	-20.79
725.22	4.18^0	91.02^0	722.56	-26.11	2.31		40.68	-19.71

Summary of Previous 24 Hours

Directionally drill ahead to 700m. Condition mud & POOH. Change out MWD and Bit. IADC bit grading on Bit #7: 5-7-WT-A-E-1-NO-HR. RIH and shallow test MWD tool. Drill pattern bit from 700m to 704m. Directionally drill ahead

Operations Forecast (next 24 Hours)

Continue to drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1045kg/ m3	45	$0.0cm^3$	10/5.3	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
8	311	Hughes GX-35DX	700	12.60	4.68	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
685 to 700	1.9	3.6	1.0	Sh+Ls+Dol
700 to 714	5.6	11.0	2.4	Sh+Ls+Dol
714 to 719	7.6	10.7	4.4	Sh+Ls
719 to 731	5.8	9.4	1.9	Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
685 to 700	.08-.04	.06-.03	.01	0.03	0.00	0	Avg. Bkgd gas=.66
700 to 714	.96-.05	.86-.04	.03	.03	.02	.01	
714 to 719	.98-.024	.87-.20	.06	.01	.02	.01	
719 to 731	.98-.32	.80-.27	.07	.04	.02	.01	
714.4-715.4	3.5	3.30	.14	.04	.01	0	Max Gas
719-720	4.18	3.18	.47	.29	.17	.07	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**		**Actual**

	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone	1060	1060			
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475	1450			
Zone 2 (pos Eagle Island)	1859	1800			

Remarks

MWD Sensors Depths: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-12	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
695 – 700 5m	**Shale: 40%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks & fine disseminated pyrite. **Limestone: 40%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, occasional clear calcite stringers, trace bitumen staining, slightly argillaceous, tight, no shows. **Dolomite: 20%,** off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, no visible porosity, no shows.
700 – 715 15m	**Shale: 60%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty. **Limestone: 30%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, occasional clear calcite stringers, trace bitumen staining, slightly argillaceous, tight, no shows. **Dolomite: 10%,** off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, no visible porosity, no shows.
715 – 725 10m	**Shale: 80%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty. **Limestone: 20%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, frequent fractures with clear calcite stringers giving increase gas values up to 4.18% total gas, trace bitumen staining, slightly argillaceous, tight, no shows.
725 – 730 5m	**Shale: 80%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty. **Limestone: 20%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows...

730 – 735 5m	**Shale: 75%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, frequent slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty. **Limestone: 20%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows. **Chert: 5%,** light gray brown, very hard, brittle, conchoidal break.
735 – 740 5m	**Shale: 80%,** green gray, dark gray, occasional red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks, occasional fine disseminated pyrite. **Limestone: 15%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, frequent glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows. **Chert: 5%,** light gray brown, very hard, brittle, conchoidal break.
740 – 745 5m	**Shale: 90%,** green gray, dark gray, black gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks, occasional fine disseminated pyrite. **Limestone: 10%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, frequent glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.
745 – 750 5m	**Limestone: 80%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows. **Shale: 20%,** green gray, dark gray, black gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks, occasional fine disseminated pyrite.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-13	19

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	829.0m	826.06	74.0 m	Shallow Bay	Drilling ahead @ 831m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	26.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
725.22	4.18^0	91.02^0	722.56	-26.11	2.31		40.68	-19.71
738.52	4.18^0	108.15^0	735.82	-25.15	2.81		40.52	-18.76
752.77	4.69^0	120.16^0	750.03	-24.10	2.22		40.06	-17.76
766.76	5.13^0	119.06^0	763.97	-22.97	0.96		39.47	-16.72
780.21	6.09^0	118.15^0	777.35	-21.73	2.15		38.84	-15.57
794.02	6.59^0	109.14^0	791.08	-20.26	2.42		38.24	-14.17

Summary of Previous 24 Hours

Directionally drill ahead to 829m @ 07:00 hrs with BHA: HUGHES GX-35DX, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Continue to drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1060kg/ m3	44	0.0cm^3	9/5.7	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
8	311	Hughes GX-35DX	700	33.00	4.01	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
731 to 807	4.2	9.3	1.4	Sh+Ls
807 to 824	3.5	7.240	2.3	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
731 to 807	.67-.09	.60-.07	.08	0.03	0.01	0	Avg. Bkgd gas=.23
807 to 824	.59-.12	.58-.05	.05	.02	.01	.01	
807-810	4.20	4.00	. .16	.09	.01	.00	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm	0	0		15	15

Allochon (HAA)					
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone	1060	1060			
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475	1450			
Zone 2 (pos Eagle Island)	1859	1800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-13	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
750 – 760 10m	**Shale: 50%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty. **Limestone: 50%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.
760 – 770 10m	**Limestone: 60%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows. **Shale: 40%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty.
770 – 780 10m	**Limestone: 70%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows. **Shale: 30%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty.
780 – 795 15m	**Limestone: 60%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows. **Shale: 40%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty. ..

795 – 800 5m	**Limestone: 80%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows. **Shale: 20%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty.
800 – 810 10m	**Limestone: 60%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, fractures in crystalline calcite with total gas up to 4.2%, tight, no shows. **Shale: 40%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty.
810 – 815 5m	**Limestone: 80%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, trace chert, slightly argillaceous, tight, no shows. **Shale: 20%,** dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty, trace sandstone.
815 – 820 5m	**Limestone: 70%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, common chert, slightly argillaceous, tight, no shows. **Shale: 30%,** green dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty
820 – 825 5m	**Limestone: 50%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, common chert, slightly argillaceous, tight, no shows. **Shale: 50%,** green dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-14	20

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	894.0m	890.37	65.0 m	Shallow Bay	Drilling ahead @ 895m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	27.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
794.02	6.59^0	109.14^0	791.08	-20.26	2.42		38.24	-14.17
807.99	7.48^0	103.41^0	804.94	-18.56	2.43		37.76	-12.53
821.19	8.53^0	101.96^0	818.01	-16.72	2.43		37.36	-10.74
834.94	8.61^0	99.98^0	831.61	-14.67	0.67		36.97	-8.37
848.40	8.67^0	100.94^0	844.92	-12.65	0.35		36.60	-6.74
862.22	8.27^0	97.25^0	858.59	-10.62	1.46		36.28	-4.73

Summary of Previous 24 Hours

Directionally drill ahead to 894m @ 07:00 hrs with BHA: HUGHES GX-35DX, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Continue to drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
xxxxkg/m3 @ xxxx.xmTVD	Gel Chem	1050kg/ m3	48	0.0cm^3	10/5.7	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
8	311	Hughes GX-35DX	700	53.20	3.66	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
809.6 to 876	3.4	7.2	1.3	Ls+Sh
876 to 891	3.4	4.8	2.3	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
809.6 to 876	1.81-.11	1.65-.09	.05	0.03	0.02	.01	Avg. Bkgd gas=.40
876 to 891	.89-.11	.79-.09	.03 .	.02	.02	.01	

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15

Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone	1060	1060			
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475	1450			
Zone 2 (pos Eagle Island)	1859	1800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-14	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
825 – 890 65m	**Limestone: 62%,** light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, firm to hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, trace clear crystalline calcite, tight, no shows. **Shale: 38%,** dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.
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Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-15	21

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	929.0m	925.08	35.0 m	Shallow Bay	Drilling ahead @ 937m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	28.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
848.40	8.67^0	100.94^0	844.92	-12.65	0.35		36.60	-6.74
862.22	8.27^0	97.25^0	858.59	-10.62	1.46		36.28	-4.73
875.21	8.26^0	97.03^0	871.44	-8.75	0.08		36.05	-2.88
889.67	8.45^0	92.89^0	885.75	-6.66	1.31		35.87	-0.79

Summary of Previous 24 Hours

Directionally drill ahead to 899.6m. Condition mud & circulate to POOH for new PDC Bit and rotary steerable BHA. Lay down MWD tools and break out previous BHA. Pick up power drive and associated BHA. Wash last 2 stands to bottom. Drill ahead & pattern PDC bit.

Operations Forecast (next 24 Hours)

Continue to drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834 kg/m3 @ 601.0mTVD	Gel Chem	1050kg/m3	46	0.0cm^3	9/5.3	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
8	311	Hughes GX-35DX	700	53.20	3.66	
9	311	Hughes HCD-506Z	899	4.7	8.54	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
876 to 899	3.2	6.1	1.8	Ls+Sh
899 to 920	7.9	15.3	0.6	Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
876 to 899	.89-.13	.79-.11	.04	0.02	0.01	.01	Avg. Bkgd gas=.35
899 to 920	.60-.19	.51-.17	.04	.02	.01	.01	
894.6 to 896	6.07	5.81	.21	.03	.01	.01	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone	1060	1060			
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475	1450			
Zone 2 (pos Eagle Island)	1859	1800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-15	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
890 – 899.6 9.6m	**Shale: 70%,** gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks. **Limestone: 30%,** light. off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, fractures with frequent clear crystalline calcite giving total gas values up to 6.06% at 895m, common bitumen staining, argillaceous, no shows
899.6 – 910 10.4m	**Shale: 60%,** dark gray to gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks. **Limestone: 40%,** buff, off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, no shows.
910 – 915 5m	**Limestone: 90%,** buff, off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows. **Shale: 10%,** dark gray to gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.
915 – 925 10m	**Shale: 90%,** green gray, dark gray to gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, trace chert, trace carbonaceous specks. **Limestone: 10%,** buff, off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-16	22

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1036.0m	1030.78	107.0 m	Shallow Bay	Circulating to POOH @ 1036.7m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	29.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
972.06	8.16^0	100.26^0	967.22	5.61	1.16		34.33	11.40
985.55	7.82^0	101.39^0	980.58	7.49	0.83		33.98	13.24
999.80	7.61^0	99.35^0	994.70	9.40	0.73		33.64	15.13
1013.24	7.40^0	99.99^0	1008.02	11.16	0.50		33.34	16.86

Summary of Previous 24 Hours

Continue to drill ahead with BHA: HUGHES HCD506Z, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, STRING STABLIZER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. Drill ahead to 1025m with ROP Avg=15.7m/hr. At 1015m to 1035m encountered chert in fracture zones reducing ROP to 1m/hr. Circulate & POOH to change bit.

Operations Forecast (next 24 Hours)

Continue to POOH and make changes in BHA & Bit. RIH & drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1060kg/m3	48	$0.0cm^3$	11/6.7	400mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
8	311	Hughes GX-35DX	700	53.20	3.66	
9	311	Hughes HCD-506Z	899	24.8	5.52	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
899 to 938	10.5	16.8	0.6	Ls+Sh
938 to 1030	15.7	35.2	4.7	Ls+Sh
1030 to 1035	1.1	1.5	0.6	Ls+Sh+Cht

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
899 to 938	.89-.13	.79-.11	.04	.02	0.01	.01	Avg. Bkgd gas=.79
938 to 1030	1.65-.29	1.51-.26	.05	.02	.01	.01	
1030 to 1035	.26-.16	.24-.15	.01	tr	tr	tr	
838.0 to 942	3.52	3.32	.15	.03	.01	.01	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone	1060	1060			
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475	1450			
Zone 2 (pos Eagle Island)	1859	1800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-16	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
925 – 935 10m	**Shale: 80%,** green gray, dark gray to medium gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, trace chert, trace carbonaceous specks. **Limestone: 20%,** off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.
935 – 950 15m	**Limestone: 70%,** buff, off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows. **Shale: 30%,** dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.
950 – 955 5m	**Shale: 80%,** dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks. **Limestone: 20%,** off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.
955 – 1010 55m	**Limestone: 90%,** buff, light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, minor sandy, trace glauconite, abundant clear crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & minor slickenside, occasional crystalline pyrite, tight, no shows. **Shale: 10%,** dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

1010 – 1025 15m	**Limestone: 70%,** buff, light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, abundant clear crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & minor slickenside, tight, no shows. **Shale: 28%,** dark gray to gray, green gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks. **Chert: 2%,** light gray brown, very hard, brittle, conchoidal break.
1025 – 1035 10m	**Limestone: 80%,** light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, increase fractures with abundant clear crystalline calcite, frequent bitumen staining, argillaceous, common fine disseminated pyrite & abundant slickensides, tight, no shows. **Shale: 19%,** dark gray to gray, green gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickensides, slightly calcareous, frequent chert, trace carbonaceous specks. **Chert: 1%,** light gray brown, very hard, brittle, conchoidal break.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-17	23

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1049.0m	1043.56	13.0 m	Shallow Bay	Drilling ahead @ 1050m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	29.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
1013.24	7.40^0	99.99^0	1008.02	11.16	0.50		33.34	16.86
1025.18	7.55^0	104.01^0	1019.86	12.71	1.37		33.02	18.37
1037.88	7.91^0	100.80^0	1032.44	14.45	0.63		32.75	20.08

Summary of Previous 24 Hours

Flow check @ 1020m. Over pull up to 105dan. Pump out of hole from 1020 to 610m & layout single DP. Pulled free from stuck pipe @ 674m. Rack back the kelly & continued to POOH. At 590m layout 1DP with badly worn bottom of tool joint. Layout directional & MWD tools, rack back 2 stands of 8" collars, 1 stand of 9" collars, break off bit, function test blind rams. Pickup new BHA & Tri-cone Bit & RIH reaming from 1030m to 1036m. 8m of fill on bottom. Continue to drill ahead to 1049m.

Operations Forecast (next 24 Hours)

Continue to directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1060kg/m3	49	$0.0cm^3$	10/6.2	400mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
9	311	Hughes HCD-506Z	899	26.0	5.27	
10	311	Hughes GX-35DX-506Z	1036	6.2	2.22	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1030 to 1042	0.8	1.0	0.7	Ls+Sh+Cht
1043.4 to 1044.4	3.2	3.8	2.7	Ls+Sh+Cht
1046.4 to 1048	2.5	4.8	1.8	Ls+Sh+Cht
1042 to 1043.4	2.3	2.6	1.7	
1044.4 to 1046.4	2.6	3.3	2.2	

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1030 to 1042	.25-.16	.23-.15	.01	tr	tr	tr	Avg. Bkgd gas=.79
1043.4 to 1044.4	2.29-1.21	2.22-1.18	.02	.02	.01	tr	
1046.4 to 1048	.86-.65	.80-.61	.03	tr	tr	tr	
1042 to 1043.4	13.15	12.63	.42	.06	.02	.02	Max Gas
1044.4 to 1046.4	10.73	10.24	.40	.05	.02	.02	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
12.68	**0.71**	**9.1hr**	**1036**					**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone	1060	1060			
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475	1450			
Zone 2 (pos Eagle Island)	1859	1800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-17	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
1035 – 1045 10m	**Limestone: 80%,** light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, increase fractures showing abundant clear crystalline calcite, frequent bitumen staining, argillaceous, common fine disseminated pyrite & abundant slickensides, tight, no shows. **Shale: 19%,** dark gray to gray, green gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickensides, slightly calcareous, frequent chert, trace carbonaceous specks. **Chert: 1%,** light gray brown, very hard, brittle, conchoidal break. **Note:** At 1047.6m Total Gas = 20.36%

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-18	24

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1076.0m	1070.28	27.0 m	Shallow Bay	RIH @ 236m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	30.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1037.88	7.91^0	100.80^0	1032.44	14.41	1.33	32.65	20.04
1052.56	8.31^0	102.66^0	1046.98	16.48	0.98	32.23	22.07
1065.28	8.60^0	104.85^0	1059.56	18.35	1.02	31.79	23.89

Summary of Previous 24 Hours

Continued to drill ahead to 1076m. Increased mud weight to 1120kg/m3 & viscosity to 56. Circulated & conditioned mud. POOH for bit change from Tri-Cone to PDC. Pulled tight from 1050m to 900m. No pumping out of hole required. Lay down MWD tool & power drive. Pickup PDC bit, new power drive/tool carrier & install new MWD tool.

Operations Forecast (next 24 Hours)

RIH & flow check @ 225m. Test power drive. Continue to RIH and directionally drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1120kg/ m3	57	0.0cm^3	15/9.6	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
10	311	Hughes GX-35DX-506Z	1036	18.25	2.19	
11	311	Smith PDC	1076			

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1049 to 1076	0.8	1.0	0.7	Ls+Sh+Cht

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1049 to 1076	.80-.17	.76-.16	.03	tr	tr	tr	Avg. Bkgd gas=.38
1048 to 1049	20.53	19.73	.66 .	.10 .	.04	.01	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone	1060	1060			
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-17	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
1045 – 1050 5m	**Limestone: 90%,** light to medium brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, firm to hard, in part brittle, trace coarse grained salt & pepper sandstone, occasional fractures with frequent clear crystalline calcite, giving up to 20.5% total gas at 1048m, common bitumen staining, argillaceous, minor fine disseminated pyrite & moderate slickenside, tight, no shows. **Shale: 9%,** dark gray to gray, green gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickensides, slightly calcareous, frequent chert, trace carbonaceous specks. **Chert: 1%,** light gray brown, very hard, brittle, conchoidal break.
1050 – 1065 15m	**Limestone: 90%,** light to medium brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, firm to hard, in part brittle, trace coarse grained, occasional fractures with frequent clear crystalline calcite, trace bitumen staining, argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows. **Shale: 9%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, minor chert, trace carbonaceous specks. **Chert: 1%,** light gray brown, very hard, brittle, conchoidal break
1065 – 1070 5m	**Limestone: 90%,** light to dark brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, hard to firm, frequent brittle, rare fractures with occasional clear crystalline calcite, trace bitumen staining, argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows. **Shale: 10%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, rare chert, trace carbonaceous specks.
1070 – 1076 6m	**Limestone: 90%,** light to dark brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, hard to firm, frequent brittle, rare fractures with occasional clear crystalline calcite, trace bitumen staining,

	argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows. **Shale: 9%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, rare chert, trace carbonaceous specks **Chert: 1%,** light gray brown, very hard, brittle, conchoidal break

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-19	25

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1121.0m	1114.77	45.0 m	Shallow Bay	Drilling ahead @ 1122m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	31.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1065.28	8.60^0	104.85^0	1059.56	18.35	1.02	31.79	23.89
1079.38	8.86^0	103.59^0	1073.50	20.48	0.69	31.26	25.96
1093.18	9.13^0	104.75^0	1087.13	22.63	0.71	30.73	28.05
1106.82	9.17^0	101.75^0	1100.59	24.80	1.05	30.23	30.16

Summary of Previous 24 Hours

Pickup PDC bit, new power drive/tool carrier & install new MWD tool & BHA: SMITH MSi816WBPX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. RIH, slip & cut at 596m. Continue to RIH to 1076m and directionally drill ahead.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1130kg/ m3	50	0.0cm^3	13/7.2	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
11	311	Smith MSi816WBPX	1076	18.4	2.50	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1076 to 1102	3.1	5.0	1.5	Ls+Sh
1106 to 1116	2.3	3.7	1.5	Ls+Sh
1117 to 1119	2.2	2.6	1.4	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1076 to 1102	1.46-.20	1.39-.18	.04	tr	tr	tr	Avg. Bkgd gas=.66
1106 to 1116	.90-.43	.86-.41	.03	tr	tr	tr	
1117 to 1119	1.00-.29	.98-.28	.02	tr	tr	tr	
1102 to 1106	3.73	3.60	.11	.02	tr	tr	Max Gas
1116 to 1117	2.05	1.99	.06	tr	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	Est. Pore Pressure	Depth
1.01	**0.25**	**11.0**	**1076**					**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	**Prognosed**		**Actual**

	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1018	1013
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-19	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
1076 – 1080 4m	**Limestone: 90%,** light to dark brown, buff, off white to cream, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, in part dolomitic, tight, no shows. **Shale: 10%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.
1080 – 1100 20m	**Limestone: 95%,** buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, minor fractures with occasional clear crystalline calcite giving TG=1.1% at 1098.7m, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, in part dolomitic, tight, no shows. **Shale: 5%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.
1100 – 1105 5m	**Limestone: 95%,** buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, none part dolomitic, slightly sucrosic, minor fractures with occasional clear crystalline calcite giving TG=3.7% at 1104m, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, tight, no shows. **Shale: 5%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.
1105 – 1115 10m	**Limestone: 95%,** buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, tight, no shows. **Shale: 5%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

1115 – 1120 5m	**Limestone: 95%,** buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, none part dolomitic, slightly sucrosic, minor fractures with occasional clear crystalline calcite giving TG=2.1% at 1116m, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, tight, no shows. **Shale: 5%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-20	26

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1171.0m	1164.27	50.0 m	Shallow Bay	Drilling ahead @ 1172m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	32.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1106.82	9.17^0	101.75^0	1100.59	24.79	1.05	30.23	30.16
1120.21	9.07^0	99.71^0	1113.81	26.91	0.76	29.84	32.25
1133.80	9.05^0	99.80^0	1127.23	29.05	0.05	29.48	34.36
1147.67	8.62^0	99.74^0	1140.94	31.18	0.93	29.12	36.46

Summary of Previous 24 Hours

Directionally drilled ahead to 1171mMD..

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1140kg/ m3	52	0.0cm^3	14/8.1	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
11	311	Smith MSi816WBPX	1076	40.4	2.37	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1119 to 1140	2.2	3.6	1.6	Ls+Sh
1141 to 1170	2.6	3.8	0.9	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1119 to 1140	1.15-.20	1.12-.18	.02	tr	tr	tr	Avg. Bkgd gas=.31
1141 to 1170	1.27-.13	1.22-.12	.03	tr	tr	tr	
1140 to 1141	1.37	1.31	.05	.01	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-20	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
1120 – 1145 25m	**Limestone: 95%,** buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows. **Shale: 5%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, occasional light brown chert, trace carbonaceous specks.
1145 – 1170 25m	**Limestone: 90%,** buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, occasional coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows. **Shale: 10%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-21	27

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1225.0m	1217.57	54.0 m	Shallow Bay	Drilling ahead @ 1227m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	33.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1147.67	8.62^0	99.74^0	1140.94	31.18	0.93	29.12	36.46
1160.70	8.33^0	101.62^0	1153.83	33.10	0.92	28.76	38.34
1175.20	8.81^0	105.47^0	1168.17	35.26	1.55	28.25	40.44
1188.39	9.68^0	99.51^0	1181.18	37.37	2.94	27.80	42.51
1202.49	10.81^0	97.77^0	1195.06	39.88	2.94	27.43	44.99

Summary of Previous 24 Hours

Directionally drilled ahead to 1125mMD.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1120kg/ m3	48	0.0cm^3	15/8.9	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
11	311	Smith MSi816WBPX	1076	60.9	2.47	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1170 to 1223	2.9	5.8	1.5	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1170 to 1223	0.93-.09	0.83-.08	.03	tr	tr	tr	Avg. Bkgd gas=.31

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633

Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145			
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=17.22m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-21	Roland Strickland

Interval & Thickness	Description
635m	**Shallow Bay Formation**
1170 – 1185 15m	**Limestone: 90%,** buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, occasional coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows. **Shale: 10%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, occasional light brown chert, trace carbonaceous specks.
1185 – 1190 5m	**Limestone: 85%,** buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows. **Shale: 10%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, slightly calcareous, occasional light brown chert, trace carbonaceous specks.
1190 – 1225 35m	**Limestone: 80%,** buff, cream to off white, light to dark brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows. **Shale: 20%,** dark gray to gray, green gray, firm to hard, brittle, blocky to platy, waxy, slightly calcareous, trace light brown chert, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-22	28

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1280.0m	1271.16	55.0 m	Green Point	Drilling ahead @ 1282m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	34.0	5.40	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1202.49	10.81^0	97.77^0	1195.06	39.88	2.94	27.43	44.99
1216.17	11.91^0	96.47^0	1208.47	42.57	2.48	27.09	47.66
1229.49	12.68^0	92.84^0	1221.49	45.40	2.46	26.87	50.49
1243.34	13.58^0	91.06^0	1234.97	48.51	2.14	26.76	53.63
1259.04	14.53^0	89.81^0	1250.20	52.28	1.91	26.73	57.44

Summary of Previous 24 Hours

Directionally drilled ahead to 1280mMD.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1125kg/ m3	54	0.0cm^3	14/8.9	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
11	311	Smith MSi816WBPX	1076	60.9	2.47	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1223 to 1280	2.9	5.8	1.1	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1223 to 1280	0.50-.13	0.45-.11	.03	tr	tr	tr	Avg. Bkgd gas=.23

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633

Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=9.34m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-22	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1225 – 1230 5m	**Limestone: 80%,** mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, occasional brittle, fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows. **Shale: 20%,** black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, slightly waxy, slightly to none calcareous, trace carbonaceous specks.
1230 – 1265 35m	**Limestone: 75%,** buff, mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, occasional brittle, in part dolomitic, frequent fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows. **Shale: 25%,** black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous, trace carbonaceous specks.
1265 – 1280 15m	**Limestone: 80%,** mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, occasional brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Shale: 20%,** black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-23	29

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1294.0m	1284.2	14.0 m	Green Point	Drilling ahead @ 1296m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	35.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1259.04	14.53^0	89.81^0	1250.20	52.28	1.91	26.73	57.44
1271.62	15.14^0	91.96^0	1262.36	52.28	1.96	26.68	60.66
1284.50	15.83^0	91.86^0	1274.78	52.28	1.61	26.57	64.10

Summary of Previous 24 Hours

Directionally drilled ahead to 1286mMD. Condition mud, circulate & do a 2 stand wiper trip. Hole in good condition with no over pull. RIH & drill ahead to 1294m. Condition mud, circulate & POOH because of irregular high torque and slow ROP. Flow check @ 1277m, 1142m, 591m & 234m. Change out Smith PDC bit (IDAC bit grading: 1-3-BT-G-X-0-CC-TQ) and make up Hughes Tri-Cone. RIH & flow check @ 596m. Drill to 1295m & take directional survey.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1120kg/m3	57	$0.0cm^3$	19/10.5	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
11	311	Smith MSi816WBPX	1076	91.75	2.37	
12rr	311	Hughes GX-35DX	1294			

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1280 to 1294	1.8	3.2	0.7	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1280 to 1294	0.23-.07	0.20-.07	.01	tr	tr	tr	Avg. Bkgd gas=.14

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15

Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=9.34m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-23	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1280 – 1285 5m	**Limestone: 80%,** mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, occasional brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. (Torque increase & ROP decrease from 2.8 to 1.2m/hr) **Shale: 20%,** black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, slightly waxy, slightly to none calcareous, trace carbonaceous specks.
1285 – 1295 10m	**Limestone: 80%,** mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. (Torque increase & ROP decrease from 2.8 to 1.2m/hr)) POOH & change from PDC to Tri - Cone Bit. **Shale: 20%,** black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous & siliceous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-24	30

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1340.0m	1329.0	46.0 m	Green Point	Drilling ahead @ 1341m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	36.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1283.66	15.75^0	91.85^0	1273.97	58.64	1.52	26.57	63.87
1298.59	16.38^0	94.17^0	1288.32	62.75	1.81	26.36	67.99
1312.15	16.91^0	96.80^0	1301.31	66.62	2.04	25.98	71.86
1325.67	17.52^0	98.69^0	1314.23	70.63	1.84	23.44	75.82

Summary of Previous 24 Hours

Directionally drilled ahead to 1340mMD with BHA: HUGHES GX-35DX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1110kg/m3	55	$0.0cm^3$	21/5.3	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
12rr	311	Hughes GX-35DX	1294	23.1	2.07	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1294 to 1315	2.2	3.2	0.6	Ls+Sh
1317 to 1333	2.0	3.2	0.7	Ls+Sh
1334 to 1336	1.8	2.3	1.2	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1294 to 1315	0.56-.07	0.52-.06	.01	tr	tr	tr	Avg. Bkgd gas=.21
1317 to 1333	0.56-.10	0.52-.08	.02	tr	tr	tr	
1334 to 1336	0.33-.19	0.30-.17	.02	tr	tr	tr	
1315 to 1317	3.68	3.39	.19	.07	.01	.01	Max Gas
1333 to 1334	1.57	1.45	.09	.02	.01	.01	
1336 to 1337	2.19	2.02	.12	.03	.01	.01	

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=9.34m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-24	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1295 – 1305 10m	**Limestone: 80%,** mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 20%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty, slightly calcareous & siliceous, trace carbonaceous specks.
1305 – 1315 10m	**Limestone: 80%,** mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, sandy with abundant quartz eyes, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 20%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.
1315 – 1320 5m	**Limestone: 90%,** mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, sandy with abundant quartz eyes, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 8%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Sandstone: 2%,** black off white, light gray, clear, medium to coarse grained, moderate sorted, subangular to angular, consolidated with calcareous cement, frequent bitumen staining, with total gas up to 3.63%, 10 to 12% inferred porosity, no shows.
1320 – 1340 20m	**Limestone: 90%,** mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers with abundant quartz eyes, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 10%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous,

	trace carbonaceous specks, occasional slickenside.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-25	31

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1380.0m	1366.4	40.0 m	Green Point	Drilling ahead @ 1385m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	37.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1325.67	17.52^0	98.69^0	1314.23	70.63	1.84	25.44	75.82
1339.76	18.06^0	101.20^0	1327.64	74.93	2.00	24.70	80.06
1353.44	18.82^0	103.70^0	1340.62	79.25	2.41	23.76	84.29
1368.15	19.36^0	104.00^0	1354.52	84.04	1.12	22.61	88.96

Summary of Previous 24 Hours

Directionally drilled ahead to 1380mMD with BHA: HUGHES GX-35DX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory. POOH and change to new BHA & Bit. Pressure test BOP's.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1130kg/ m3	60	0.0cm^3	20/10.5	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
12rr	311	Hughes GX-35DX	1294	45.1	2.01	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1337 to 1382	2.1	4.0	1.0	Ls+Sh+Ss

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1337 to 1382	0.52-.07	0.48-.06	.02	tr	tr	tr	Avg. Bkgd gas=.22

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=9.34m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-25	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1340 – 1345 5m	**Limestone: 80%,** mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 20%,** black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks, occasional slickensides.
1345 – 1355 10m	**Limestone: 50%,** mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Sandstone: 30%,** salt & pepper, off white, clear, clear, fine to medium grained, occasional coarse grained, moderate sorted, subangular to angular, consolidated with calcareous cement, minor fine disseminated pyrite, frequent bitumen staining, 10 to 12% inferred porosity, no shows. **Shale: 20%,** black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks, occasional slickenside.
1355 – 1380 25m	**Limestone: 90%,** mottled gray, off white, dark gray, light brown, packstone, microcrystalline to crystalline, abundant siliceous matrix, occasional quartz eyes, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 10%,** black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-26	32

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1386.0m	1372.4	6.0 m	Green Point	RIH @ 150m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	38.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1325.67	17.52^0	98.69^0	1314.23	70.63	1.84	25.44	75.82
1339.76	18.06^0	101.20^0	1327.64	74.93	2.00	24.70	80.06
1353.44	18.82^0	103.70^0	1340.62	79.25	2.41	23.76	84.29
1368.15	19.36^0	104.00^0	1354.52	84.04	1.12	22.61	88.96

Summary of Previous 24 Hours

Directionally drilled ahead to 1386mMD. POOH and lay down bit, power drive, & BHA. Pressure test BOP's & surface equipment. Make up new bit, mud motor with 1.15^0 bend & BHA. RIH

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1130kg/ m3	60	0.0cm^3	20/10.5	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
12rr	311	Hughes GX-35DX	1294	45.1	2.01	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1384 to 1386	1.9	2.4	1.8	Ls+Sh
1382 to 1384				

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1384 to 1386	0.46-.09	0.38-.06	.04	tr	tr	tr	Avg. Bkgd gas=.13
1382 to 1384	1.70	1.50	.12	.05	.02	.01	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=9.34m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-26	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1380 – 1386 6m	**Limestone: 90%,** mottled gray, off white, dark gray, light brown, packstone, microcrystalline to crystalline, abundant siliceous matrix, occasional quartz eyes, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, occasional sandstone stringers with total gas up to 1.6% @ 1383m, tight, no shows. **Shale: 20%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-27	33

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1428.0m	1412.4	42.0 m	Green Point	RIH @ 150m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	39.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1368.15	19.36^0	104.00^0	1354.52	84.04	1.12	22.61	88.96
1375.02	19.16^0	102.95^0	1361.00	86.30	1.75	22.08	91.16
1389.50	20.19^0	102.53^0	1374.64	91.17	2.15	21.01	95.92
1401.73	21.14^0	101.42^0	1386.08	95.48	2.52	20.11	100.14

Summary of Previous 24 Hours

Pick up mud motor, scribe & install MWD tools. RIH with BHA: HUGHES HCM608, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. Wash & ream from 662m – 674m (wear spot for drill pipe). Wash last two single stands to bottom, no fill. Directionally drill ahead to 1428m. (2 – 5% Chert from 1421 to 1428).

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	11250k g/m3	68	0.0cm^3	17/11.0	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
13	311	Hughes HCM608	1386	20.2	2.07	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1386 to 1412	4.8	7.6	1.7	Ls+Sh
1421 to 1427.5	0.7	1.6	0.2	Ls+Sh+Cht
1412 to 1421	5.1	6.6	3.2	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1386 to 1412	0.77-.14	0.38-.06	.04	tr	tr	tr	Avg. Bkgd gas=.41
1421 to 1427.5	0.61-.06	0.52-.04	.03	tr	tr	tr	
1412 to 1421	2.64	2.41	.16	.05	.01	.01	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=9.34m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-27	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1386 – 1415 29m	**Limestone: 90%,**.mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 10%,** black, dark gray to gray, green gray, trace red brown, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.
1415 – 1420 5m	**Limestone: 90%,**. mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, frequent fractures with abundant clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 8%,** dark gray to gray, green gray, trace red brown, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 2%,** light gray brown, very hard, brittle, conchoidal break.
1420 – 1425 5m	**Limestone: 85%,**. mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, frequent fractures with abundant clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 10%,** dark gray to gray, green gray, trace red brown, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 5%,** light gray brown, very hard, brittle, conchoidal break.
1428m Spot sample	**Limestone: 85%,**. mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, frequent fractures with abundant clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 12%,** dark gray to gray, green gray, trace red brown, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 3%,** light gray brown, very hard, brittle, conchoidal break.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-28	34

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1451.0m	1433.7	23.0 m	Green Point	Drilling ahead @ 1455m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	40.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1401.73	21.14^0	101.00^0	1386.08	95.48	2.52	20.11	100.14
1424.94	22.79^0	101.48^0	1407.63	104.16	2.26	18.42	108.65

Summary of Previous 24 Hours

Directionally drill ahead to 1433m. Slow ROP. Condition mud & circulate hole clean & POOH. Flow check @ 1428m, 1291m, 714m & 357m. Break bit & drain mud motor. Make up new Tri-Cone bit & RIH with same BHA. Wash to bottom from 1424m to 1433m. Drill 311mm & pattern bit from 1433m to 1447m.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	11200k g/m3	60	0.0cm^3	18/10.0	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
13	311	Hughes HCM608	1386	26.25	1.79	
14	311	Reed M4249ZPD2T	1433	6.5	3.44	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1427.5 to 1433	0.9	2.3	0.2	Ls+Sh+Cht
1433 to 1447	3.1	5.4	0.6	Ls+Sh+Cht

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1427.5 to 1433	0.18-.06	0.15-.04	.01	tr	tr	tr	Avg. Bkgd gas=.09
1433 to 1447	0.17-.10	0.15-.08	tr	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	Est. Pore Pressure	Depth
0.51	**0.38**	**9.5**	**1433**					**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=15.34m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-28	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1425 – 1440 15m	**Limestone: 85%,** off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. **Shale: 13%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 2%,** light gray brown, very hard, brittle, conchoidal break.
1440 – 1445 5m	**Limestone: 80%,** buff, off white, cream, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, occasional siliceous hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, minor fine disseminated pyrite, tight, no shows. **Shale: 19%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 1%,** light gray brown, very hard, brittle, conchoidal break.
1445 – 1450 5m	**Limestone: 80%,** buff, off white, cream, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, occasional siliceous hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, minor fine disseminated pyrite, tight, no shows. **Shale: 15%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 5%,** light gray brown, very hard, brittle, conchoidal break.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-29	35

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1527.0m	1502.13	76.0 m	Green Point	Drilling ahead @ 1530m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	41.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1465.88	25.42^0	101.44^0	1444.98	120.86	1.84	15.15	125.04
1479.79	25.46^0	101.70^0	1457.54	126.83	0.26	13.95	130.89
1507.03	25.70^0	102.15^0	1482.16	138.59	0.34	11.52	142.40

Summary of Previous 24 Hours

Directionally drill ahead to 1527m with BHA: REED M4249ZPD2T, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	11200kg/m3	71	0.0cm^3	17/8.6	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
13	311	Hughes HCM608	1386	26.25	1.79	
14	311	Reed M4249ZPD2T	1433	27.4	3.54	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1433 to 1523	3.7	8.7	0.6	Ls+Sh+Cht

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1433 to 1523	0.96-.10	0.85-.08	.04	.02	tr	tr	Avg. Bkgd gas=.44

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=15.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-29	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1450 – 1475 25m	**Limestone: 80%,** light to dark brown, buff, off white, cream, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite & nodular pyrite, tight, no shows. **Shale: 15%,** black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 5%,** light gray brown, clear, very hard, brittle, conchoidal break...
1475 – 1485 10m	**Limestone: 73%,** light to dark brown, buff, off white, cream, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite & nodular pyrite, tight, no shows. **Shale: 25%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks in part waxy. **Chert: 2%,** light brown, gray brown, clear, very hard, brittle, conchoidal break.
1485 – 1500 15m	**Limestone: 80%,** buff, cream, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, trace light brown chert, tight, no shows. **Shale: 20%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks in part waxy.
1500 – 1510 15m	**Limestone: 65%,** buff, light to dark brown, off white, cream, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Shale: 20%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks in part waxy. **Chert: 15%,** light brown, gray brown, clear, very hard, brittle,

	conchoidal break.
1510 – 1525 15m	**Limestone: 90%,** buff, light to dark brown, off white, cream, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Shale: 9%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 1%,** light brown, gray brown, clear, very hard, brittle, conchoidal break.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-30	36

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1552.0m	1524.26	25.0 m	Green Point	RIH @ 547m

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	42.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1507.03	25.70^0	102.15^0	1482.16	138.52	0.83	11.48	142.34
1520.75	26.33^0	100.58^0	1494.46	144.54	2.04	10.30	148.24
1534.57	26.67^0	102.25^0	1506.83	150.70	1.78	9.08	154.28

Summary of Previous 24 Hours

Directionally drill ahead to 1552m. Slow ROP's. Condition mud, circulate & POOH. Flow checks @ 1547m, 1395m, 762m & 268m. Lay out MWD tool, drain mud motor & break off bit. Make up new bit to MWD tools & present BHA. RIH.

Operations Forecast (next 24 Hours)

Continue to RIH to 1552m & directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	11150k g/m3	66	to hole $4.3cm^3$	15/9.6	400mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
14	311	Reed M4249ZPD2T	1433	41.50	2.86	
15	311	Hughes S55RDX	1552			

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1523 to 1552	2.5	6.3	0.2	Ls+Ss+Sh+Cht

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1523 to 1552	0.76-.29	0.66-.24	.04	.02	tr	tr	Avg. Bkgd gas=.43

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=15.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-30	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1525 – 1540 15m	**Limestone: 75%,** dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 15%,** off white, salt & pepper, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, 8 to 12% inferred porosity, no shows. **Shale: 9%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks. **Chert: 1%,** light gray brown, clear, very hard, brittle, conchoidal break...
1540 – 1545 5m	**Limestone: 65%,** dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 25%,** off white, light gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, frequent carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 10%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.
1545 – 1550 5m	**Limestone: 60%,** dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 30%,** off white, light gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, frequent carbonaceous specks, 8 to 12% inferred porosity, no shows.

	Shale: 10%, dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.
1550 – 1552 2m	**Limestone: 50%,** dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows **Sandstone: 25%,** off white, light gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, frequent carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 25%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks and bitumen staining, occasional slickensides. (Bottom's up Sample: POOH for new Bit)

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-03-31	37

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1596.0m	1564.06	44.0 m	Green Point	Drilling ahead @ 1598mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	43.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1534.57	26.67^0	102.25^0	1506.83	150.70	1.78	9.08	154.28
1548.39	26.56^0	101.99^0	1519.19	156.88	0.35	7.78	160.33
1561.88	26.59^0	102.80^0	1531.25	162.91	0.81	6.48	166.23
1575.03	25.74^0	103.32^0	1543.09	168.71	2.01	5.17	171.88

Summary of Previous 24 Hours

Slip & Cut. Shallow test MWD tool. Flow check at 1534m. Wash & ream to bottom & pattern bit from 1552m to 1564m. Directionally drill ahead to 1596m.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1120kg/ m3	55	to hole 1.0cm^3	15/8.1	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
15	311	Hughes S55RDX	1552	17.70	2.59	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1552 to 1592	3.0	5.7	1.9	Ls+Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1552 to 1592	0.66-.13	0.60-.10	.03	.01	tr	tr	Avg. Bkgd gas=.25

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598

Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450			
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=15.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-03-31	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1552 – 1565 13m	**Limestone: 60%,** dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 20%,** off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 19%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, occasional slickenside. **Chert: 1%,** light gray brown, clear, very hard, brittle, conchoidal break...
1565 – 1570 5m	**Limestone: 50%,** dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows. **Sandstone: 40%,** off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 10%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.
1570 – 1590 20m	**Limestone: 70%,** buff, off white, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows. **Sandstone: 20%,** off white, light to medium gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite,

	occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 10%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, occasional slickenside.
1590 – 1595 5m	**Limestone: 65%,** buff, off white, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows. **Sandstone: 25%,** off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 10%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-01	38

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1661.0m	1622.17	65.0 m	Green Point	Drilling ahead @ 1664mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	44.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1616.40	25.89^0	102.71^0	1580.32	186.62	0.70	1.09	189.36
1630.03	26.19^0	101.37^0	1592.57	192.59	1.45	-0.16	195.21
1644.06	25.41^0	100.41^0	1605.23	198.70	1.89	-1.31	201.21

Summary of Previous 24 Hours

Directionally drill ahead to 1661m with BHA: HUGHES S55RDX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1120kg/m3	60	to hole 1.0cm^3	16/9.1	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
15	311	Hughes S55RDX	1552	38.90	2.91	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1592 to 1659	3.2	5.3	0.9	Ls+Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1592 to 1659	0.57-.08	0.53-.07	.02	.01	tr	tr	Avg. Bkgd gas=.26

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598

Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800			
Remarks **MWD Sensors Depths**: Dir=15.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-01	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1595 – 1605 10m	**Limestone: 65%,** buff, off white, light to dark brown, dark gray, packstone, crystalline to microcrystalline, frequent quartz eyes, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows. **Sandstone: 25%,** off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 10%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks.
1605 – 1615 10m	**Limestone: 70%,** buff, off white, mottled gray, light to dark brown, dark gray, packstone, crystalline to microcrystalline, frequent quartz eyes, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, minor light brown chert grains, tight, no shows. **Sandstone: 20%,** off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 10%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.
1615 – 1625 10m	**Limestone: 80%,** dark gray, buff, light to dark brown, mottled gray, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 10%,** off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard,

	indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 10%,** dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, occasional slickenside.
1625 – 1660 35m	**Limestone: 90%,** buff, off white, dark gray, light brown, mudstone, microcrystalline to cryptocrystalline, occasional crystalline, minor siliceous matrix, firm to hard, occasional chalky, in part dolomitic, minor fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Shale: 10%,** dark gray to gray, black, green gray, hard to firm, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-02	39

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1701.0m	1658.10	40.0 m	Green Point	RIH @ 1210mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	45.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
1644.06	25.41^0	100.41^0	1605.23	198.70	1.89		-1.31	201.21
1658.14	25.49^0	100.33^0	1617.92	204.75	0.19		-2.40	207.16
1671.30	25.51^0	100.70^0	1629.79	210.41	0.37		-3.43	212.73
1685.60	25.53^0	100.32^0	1642.70	216.57	0.35		-4.56	218.79

Summary of Previous 24 Hours

Directionally drill ahead to 1701m. Slow ROP's. Condition mud & circulate hole clean. POOH to change bit. Flow check @ 857m & 361m. Rig in tongs for 9" work. Pull MWD tool & break bit, dress new bit & install new MWD tool. Bit #15 Grading: 2-2-WT-G-E-0-NO-PR. RIH & flow check @ 606m. Shallow test MWD tool. RIH.

Operations Forecast (next 24 Hours)

Continue to RIH & directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1140kg/m3	59	0.0cm^3	17/8.6	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
15	311	Hughes S55RDX	1552	52.10	2.85	
16	311	Hughes GX-44DX	1701			

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1659 to 1701	3.1	5.3	1.2	Ls+Sh+Ss

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1659 to 1701	0.98-.18	0.86-.16	.03	.02	tr	tr	Avg. Bkgd gas=.44

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm	0	0		15	15

Allochon (HAA)					
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800			
Remarks **MWD Sensors Depths**: Dir=15.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-02	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1660 – 1665 5m	**Limestone: 75%,** buff, off white, dark gray, light brown, mudstone, microcrystalline to cryptocrystalline, occasional crystalline, minor siliceous matrix, firm to hard, occasional chalky, in part dolomitic, minor fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Shale: 25%,** green gray, dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.
1665 – 1675 10m	**Limestone: 85%,** dark to medium gray, buff, off white, packstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Shale: 15%,** green gray, dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.
1675 – 1685 10m	**Limestone: 60%,** dark to medium gray, buff, off white, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 20%,** medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 20%,** green gray, dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.
1685 – 1701 16m	**Limestone: 50%,** dark to medium gray, buff, gray brown, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 30%,** medium to dark gray, off white, mottled gray, fine

	to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows. **Shale: 20%,** dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-03	40

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1761.0m	1712.39	60.0 m	Green Point	Drill ahead @ 1761mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	46.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
1685.60	25.53^0	100.32^0	1642.70	216.57	0.35		-4.56	218.79
1701.16	25.54^0	99.95^0	1656.74	223.28	0.31		-5.74	225.39
1714.97	25.77^0	99.55^0	1669.19	229.26	0.63		-6.75	231.28
1742.77	26.47^0	99.13^0	1694.16	241.50	0.78		-8.74	243.36

Summary of Previous 24 Hours

RIH to 1264m. Function test accumulator on BOP's. Continue to RIH & wash last 2 single stands to bottom. Pattern drill bit from 1701m to 1707m. Directionally drill ahead to 1761m with BHA: HUGHES GX-44DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC(8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1145kg/m3	59	to hole $0.0cm^3$	19/10.0	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
16	311	Hughes GX-44DX	1701	19.9	3.06	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1701 to 1757	3.1	5.6	1.1	Ls+Sh+Ss

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1701 to 1757	1.06-.08	0.95-.06	.03	.02	tr	tr	Avg. Bkgd gas=.36
1715.0	1.06						Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15

Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Yellow Point	1948	1865			
Remarks **MWD Sensors Depths**: Dir=15.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-03	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1701 – 1710 9m	**Limestone: 60%,** dark to medium gray, buff, light brown, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 20%,** predominately medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, occasional grains salt & pepper, fine to medium grained, medium to poorly sorted, subangular to subround, mainly quartz +feldspar, + lithic fragments +glauconite + green sericitized serpentine (typical Eagle Island Formation), 8 to 14% inferred porosity, no shows. **Shale: 19%,** dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite. **Chert: 1%,** light brown, gray brown, clear, very hard, brittle, conchoidal break.
1710 – 1715 5m	**Limestone: 80%,** buff, dark to medium gray, light brown, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 10%,** predominately medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, occasional grains salt & pepper, fine to medium grained, medium to poorly sorted, subangular to subround, mainly quartz +feldspar, + lithic fragments +glauconite + green sericitized serpentine (typical Eagle Island Formation), 8 to 14% inferred **Shale: 10%,** dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1715 – 1720 5m	**Limestone: 75%,** buff, dark to medium gray, light brown, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. **Sandstone: 15%,** predominately medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, occasional grains salt & pepper, fine to medium grained, medium to poorly sorted, subangular to subround, mainly quartz +feldspar, + lithic fragments +glauconite + green sericitized serpentine (typical Eagle Island Formation), 8 to 14% inferred porosity, no shows. **Shale: 10%,** dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.
1720 – 1750 30m	**Limestone: 90%,** buff, dark to medium gray, light brown, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylotites, tight, no shows. **Shale: 10%,** dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.
1750 – 1755 5m	**Limestone: 80%,** buff, dark to medium gray, light brown, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, trace light brown chert, tight, no shows. **Shale: 20%,** dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickensides.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-04	41

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1817.0m	1762.61	56.0 m	Green Point	Drill ahead @ 1818mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	46.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
1769.54	26.97^0	99.54^0	1718.06	253.54	0.82		-10.76	255.23
1787.11	27.27^0	98.80^0	1733.70	261.55	0.77		-12.04	263.14
1796.83	26.39^0	100.74^0	1742.44	265.94	3.83		-12.78	267.46

Summary of Previous 24 Hours

Directionally drill ahead to 1817m.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1140kg/m3	64	to hole 0.0cm^3	21/10.1	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
16	311	Hughes GX-44DX	1701	40.6	2.91	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1757 to 1815	3.0	5.3	1.0	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1757 to 1815	0.47-.03	0.41-.03	.03	.01	tr	tr	Avg. Bkgd gas=.14

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038

Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Yellow Point	1948	1865			
Remarks **MWD Sensors Depths**: Dir=15.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-04	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1755 – 1775 20m	**Limestone: 80%,** medium to light gray, buff, light brown, dark gray, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows. **Shale: 20%,** dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickensides.
1775 – 1785 10m	**Limestone: 70%,** medium to light gray, buff, light brown, dark gray, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows. **Shale: 30%,** medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickensides.
1785 – 1815 30m	**Limestone: 85%,** buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows. **Shale: 15%,** medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickensides.
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Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-05	42

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1875.0m	1814.72	58.0 m	Green Point	Drill ahead @ 1878mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	47.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1824.85	26.61^0	100.48^0	1767.47	278.39	0.69	-15.04	279.71
1838.89	27.12^0	101.13^0	1779.99	284.73	1.26	-16.23	285.94
1852.12	26.44^0	102.35^0	1791.84	290.69	1.98	-17.44	291.78

Summary of Previous 24 Hours

Directionally drill ahead to 1875m.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1140kg/ m3	56	to hole 0.0cm^3	19/10.1	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
16	311	Hughes GX-44DX	1701	63.2	2.81	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1815 to 1855	3.6	10.5	1.6	Ls+Sh+Ss
1857 to 1873	2.0	3.4	2.0	Sh+Ls+Ss
1855 to 1857	5.1	9.4	3.2	Ss+Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1815 to 1855	0.63-.05	0.59-.04	.02	.01	tr	tr	Avg. Bkgd gas=.21
1857 to 1873	0.81-0.17	0.71-.16	.03	.02	tr	tr	
1855 to 1857	1.36	1.30	0.04	0.02	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15

Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865			

Remarks

MWD Sensors Depths: Dir=15.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-05	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1815 – 1835 20m	**Limestone: 80%,** buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows. **Shale: 20%,** medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickensides.
1835 – 1845 10m	**Zone 3 Pos Eagle Island @ 1837mMD; 1778.3mTVD.** **Limestone: 60%,** light gray, buff, light brown, dark gray, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows. **Sandstone: 30%,** off white, clear, light gray, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 8 to 14% intercrystalline porosity, no shows. **Shale: 10%,** medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickensides.
1845 – 1855 10m	**Sandstone: 70%,** off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% intercrystalline porosity with minor intervals up to 16% intercrystalline porosity, Total gas up to 1.36% at 1856.5m, no shows. **Limestone: 20%,** buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, occasional stylolites, tight, no shows.

	Shale: 10%, medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite.
1855 – 1865 10m	**Limestone: 40%,** light brown, buff, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows. **Shale: 40%,** dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, trace carbonaceous specks, fine disseminated pyrite. **Sandstone: 20%,** off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% intercrystalline porosity, no shows.
1865 – 1875 10m	**Shale: 60%,** dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, trace carbonaceous specks, fine disseminated pyrite. **Limestone: 30%,** light brown, buff, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, occasional crystalline, hard to firm, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows. **Sandstone: 10%,** off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% intercrystalline porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-06	43

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1908.0m	1843.49	33.0 m	Green Point	Make up BHA @ Surface

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	48.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1865.70	26.38^0	102.51^0	1803.97	296.72	0.21	-18.74	297.68
1879.37	26.36^0	101.52^0	1816.21	302.78	0.97	-20.00	303.62
1892.37	26.37^0	101.13^0	1827.86	308.55	0.40	-21.14	309.28

Summary of Previous 24 Hours

Directionally drill ahead to 1908m. Condition mud & circulate hole clean. POOH & flow check @ 1892, 1754m, 927m & 376m. Lay down BHA & 6 joints of 6.5" DC's. Lay down MWD tool & mud motor. Bit Grading: 2-3-WT-A-F-0-BT-BHA.

Operations Forecast (next 24 Hours)

Make up new BHA & Bit and RIH & Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1150kg/ m3	66	to hole $0.0cm^3$	21/13.4	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
16	311	Hughes GX-44DX	1701	77.4	2.67	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1873 to 1882	2.2	2.9	1.9	Sh+Ls+Ss
1885 to 1908	2.1	3.2	1.0	Sh+Ls+Ss
1882 to 1885	2.8	5.0	1.8	Ss+Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1873 to 1882	0.78-0.27	0.71-.24	.03	.01	tr	tr	Avg. Bkgd gas=.46
1885 to 1908	0.85-0.36	0.79-.33	.03	.02	tr	tr	
1882 to 1885	5.70	5.46	0.20	0.04	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**

Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865			
Remarks **MWD Sensors Depths**: Dir=18.21m; Pressure=xx.xxm, Res=xx.xxm; GR=xx.xxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-06	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1875 – 1880 5m	**Shale: 60%,** dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, trace carbonaceous specks, fine disseminated pyrite. **Limestone: 30%,** light brown, buff, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, occasional crystalline, hard to firm, in part dolomitic, frequent clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows. **Sandstone: 10%,** off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% intercrystalline porosity, no shows.
1880 – 1885 5m	**Shale: 40%,** dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite. **Sandstone: 30%,** off white, clear, light gray, fine to medium grained, occasional coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, occasional carbonaceous specks & bitumen staining, mainly 10 to 14% intercrystalline porosity with minor intervals up to 16% intercrystalline porosity, no shows. **Total Gas up to 5.69% at 1884m.** **Limestone: 30%,** light brown, buff, medium to light gray, dark gray, mudstone, microcrystalline to crystalline, hard to firm, occasional chalky, in part dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.
1885 – 1900 15m	**Shale: 50%,** black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite. **Limestone: 35%,** dark gray, light brown, buff, mudstone, microcrystalline to crystalline, hard to firm, brittle, very dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows. **Sandstone: 15%,** off white, clear, light gray, fine to medium grained, occasional coarse grained, moderate sorted, subangular to

	subround, mainly quartz, consolidated with calcareous & silica cement, very hard, indurated, fine disseminated pyrite, occasional carbonaceous specks & bitumen staining, mainly 8 to 12% intercrystalline porosity, no shows.
1900 – 1905 5m	**Shale: 70%,** black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite. **Limestone: 20%,** dark gray, light brown, buff, mudstone, microcrystalline to crystalline, hard to firm, brittle, very dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows. **Sandstone: 10%,** off white, clear, light gray, fine to medium grained, occasional coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous & silica cement, very hard, indurated, fine disseminated pyrite, occasional carbonaceous specks & bitumen staining, mainly 8 to 12% intercrystalline porosity, no shows.
1905 – 1908 3m	**Shale: 90%,** black, black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite, micro micaceous. **Limestone: 10%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, very dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows. **(Bottom's up sample: POOH to change Bit & BHA with Rotary Steerable)**

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-07	44

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1925.0m	1858.73	17.0 m	Green Point	Drilling ahead @ 1926mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	49.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1909.91	26.05^0	102.64^0	1843.64	316.30	1.27	-22.73	316.86

Summary of Previous 24 Hours

Make up new BHA with rotary steerable, new Bit and RIH. Shallow test MWD tool @629m. Slip & cut drilling line at 639m. RIH from 639m to 1505m. At 1505m fill pipe & ream from 1510m to 1550m. RIH from 1550m to 1797m. Ream from 1797m to bottom @ 1908m. Drill ahead.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1155kg/m3	52	to hole $0.0cm^3$	17/8.6	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
17	311	Hughes GX-44DX	1908	9.8	1.80	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1908 to 1922	2.1	4.7	0.8	Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1908 to 1922	1.09-0.36	0.99-.33	.05	.01	tr	tr	Avg. Bkgd gas=.51

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	Est. Pore Pressure	Depth
3.12	**0.31**	**16.2**	**1908**					**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038

Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865			
Remarks **MWD Sensors Depths**: Dir=8.21m; Pressure=xx.xxm, Res=xx.xxm; GR=10.20m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-07	Roland Strickland

Interval & Thickness	Description
1230m	**Green Point Formation**
1908 – 1910 2m	**Shale: 90%,** black, black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite, micro micaceous. **Limestone: 10%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, very dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.
1910 – 1925 15m	**Shale: 80%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, trace fine disseminated pyrite, micro micaceous, trace salt & pepper sandstone. **Limestone: 19%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows. **Chert: 1%,** light brown, gray brown, clear, very hard, brittle, conchoidal break.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-08	45

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	1963.0m	1892.80	38.0 m	Yellow Point	Drilling ahead @ 1965mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	50.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1924.00	25.45^0	102.32^0	1856.30	322.38	1.14	-24.03	322.82
1937.84	24.76^0	101.27^0	1868.83	328.25	1.78	-25.23	328.56
1951.26	24.42^0	101.60^0	1881.06	333.84	0.82	-26.33	334.04

Summary of Previous 24 Hours

Drill ahead with BHA: HUGHES GX-44DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. Change out MWD sensor. Continue to drill ahead to 1963mMD.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1140kg/ m3	52	to hole $1.0cm^3$	20/7.7	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
17	311	Hughes GX-44DX	1908	30.7	1.85	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1922 to 1939	2.4	10.0	1.2	Sh+Ls
1944 to 1963	2.2	13.1	1.0	Sh+Ls
1939 to 1941	1.8	2.2	1.5	Sh+Ls
1941 to 1944	2.2	7.9	1.0	Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1922 to 1939	1.17-0.45	1.10-0.41	.05	.01	tr	tr	Avg. Bkgd gas=.70
1944 to 1963	1.59-0.47	1.44-0.43	.04	.02	tr	tr	
1939 to 1941	7.22	6.91	0.29	0.02	tr	tr	Max Gas
1941 to 1944	1.92	1.76	0.10	0.06	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			

Remarks

MWD Sensors Depths: Dir=8.21m; Pressure=xx.xxm, Res=xx.xxm; GR=10.20m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-08	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
1925 – 1945 20m	**Shale: 80%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, occasional nodular pyrite, micro micaceous. **Limestone: 20%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, & bitumen staining, trace fine disseminated pyrite, tight, no shows. Total Gas up to 7.22%.
1945 – 1960 15m	**Shale: 90%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, occasional slickensides. **Limestone: 10%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-09	46

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2005.0m	1931.27	42.0 m	Yellow Point	Drilling ahead @ 2006mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	51.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1965.67	23.89^0	101.24^0	1894.21	339.67	1.15	-27.54	339.76
1979.15	23.61^0	101.58^0	1906.55	345.10	0.69	-26.62	345.08
1993.00	23.06^0	102.87^0	1919.27	350.59	1.63	-29.78	350.44

Summary of Previous 24 Hours

Continue to drill ahead to 2005mMD.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1135kg/m3	56	to hole $0.7cm^3$	16/8.6	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
17	311	Hughes GX-44DX	1908	52.0	1.88	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1963 to 2000	2.0	4.6	0.7	Sh+Ls
2000 to 2002	2.0	4.1	1.5	Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1963 to 2000	1.74-0.55	1.64-0.51	.05	.02	tr	tr	Avg. Bkgd gas=.81
2000 to 2002	7.91	7.58	0.33	0.03	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.21m; Pressure=xx.xxm, Res=xx.xxm; GR=10.20m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-09	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
1960 – 1975 15m	**Shale: 95%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, occasional slickenside, minor pyrite nodules, **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor sandstone grains, tight, no shows
1975 – 2005 30m	**Shale: 95%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickensides. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear crystalline calcite, frequent bitumen staining, trace fine disseminated pyrite, minor salt & pepper sandstone grains, tight, no shows

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-10	47

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2044.0m	1968.12	39.0 m	Yellow Point	POOH @ 1584mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	52.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
1993.00	23.06^0	102.87^0	1919.27	350.59	1.63		-29.78	350.44
2006.38	22.87^0	103.70^0	1931.58	355.79	0.84		-30.98	355.52
2020.16	22.77^0	105.47^0	1944.28	361.11	1.51		-32.32	360.70

Summary of Previous 24 Hours

Continue to drill ahead to 2044mMD. Condition mud & circulate bottoms up sample. POOH to change for new bit.

Operations Forecast (next 24 Hours)

Continue to POOH. Break off bit and change for new bit. RIH & directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1150kg/ m3	76	to hole $0.0cm^3$	20/11.5	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
17	311	Hughes GX-44DX	1908	70.6	1.92	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2002 to 2019	2.1	4.1	0.7	Sh+Ls
2029 to 2042	2.1	3.7	1.0	Sh+SS+Ls
2019 to 2022	2.2	4.1	1.0	Fractures in Shale
2023 to 2024	2.7	3.6	2.0	
2024 to 2026	2.2	3.2	1.5	
2026 to 2029	2.3	3.7	1.7	
2042 to 2044	2.2	2.8	1.0	Fractures in Shale

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2002 to 2019	2.05-0.78	1.92-0.71	.07	.02	tr	tr	Avg. Bkgd gas=1.60
2029 to 2042	3.08-0.87	2.89-0.82	.09	.03	tr	tr	
2019 to 2022	10.87	10.35	.42	.10	tr	tr	Max Gas
2023 to 2024	7.60	7.14	.31	.15	tr	tr	Max Gas
2024 to 2026	13.72	12.96	.52	.23	tr	tr	Max Gas
2026 to 2029	5.57	5.17	.24	.15	tr	tr	Max Gas
2042 to 2044	6.51	6.12	.23	.16	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Time	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473	2375			
Table Cove	2593	2495			
Table Point	2623	2525			

Remarks

MWD Sensors Depths: Dir=8.21m; Pressure=xx.xxm, Res=xx.xxm; GR=10.20m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-10	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2005 – 2025 20m	**Shale: 95%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickensides, **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows. **Total gas up to 10.87%.**
2025 – 2035 10m	**Shale: 70%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickensides. **Sandstone: 25%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows. **Total gas up to 13.72%.**
2035 – 2044 9m	**Shale: 65%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickensides. **Sandstone: 30%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows. **POOH to change Bit.**

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-11	48

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2044.0m	1968.12	0.0 m	Yellow Point	RIH @ 2038mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	53.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1993.00	23.06^0	102.87^0	1919.27	350.59	1.63	-29.78	350.44
2006.38	22.87^0	103.70^0	1931.58	355.79	0.84	-30.98	355.52
2020.16	22.77^0	105.47^0	1944.28	361.11	1.51	-32.32	360.70

Summary of Previous 24 Hours

POOH, flow check & function blind rams. Break off bit with grading: 3-4-FC-H-4-0-WT-HR. Make up new bit, lay out & pick up new MWD tool. RIH to 629m and shallow test MWD tool. Flow check at 629m & 1123m. Circulate bottoms up at 1123m & at 1616m to circulate gas out of wellbore. Continue to RIH to 1988m. Reaming 311mm hole from 1986 to 2038m. Circulated Gas up to 35.25% @ 2026m.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1150kg/m3	76	0.0cm^3	20/11.5	450mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
18	311	Hughes GX-35DX	2044			

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
				ale

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks Avg. Bkgd gas=

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**
6.78	**1.25**	**14.7**	**629**						
7.20	**1.03**	**0.75**	**1122**						
10.52	**2.71**	**0.83**	**1616**						
35.25	**6.86**	**0.75**	**2026**						

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15

Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.21m; Pressure=xx.xxm, Res=xx.xxm; GR=10.20m;					

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-12	49

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2056.0m	1968.12	12.0 m	Yellow Point	Reaming hole to 2042mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	54.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2020.16	22.77^0	105.47^0	1944.28	361.11	1.51	-32.32	360.70
2033.84	22.93^0	109.75^0	1956.89	366.37	3.66	-33.93	365.76

Summary of Previous 24 Hours

Reaming 311mm hole from 1986 to 2044m. Condition mud & circulate Mud Density to 1190kg/m^3. Drill ahead to 2056m. Wiper trip from 2056m to 1998m, pumping out singles. Ream & clean from 1998m to 2044m.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1190kg/ m3	61	to hole 0.0cm^3	19/11.0	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
18	311	Hughes GX-35DX	2044	6.3	2.01	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2044 to 2056	2.1	4.6	0.5	Sh+Ss+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2044 to 2056	0.64-0.39	0.59-0.34	.02	.01	tr	tr	Avg. Bkgd gas=0.47

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038

Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.60m; Pressure=xx.xxm, Res=xx.xxm; GR=9.52m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-12	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2044 – 2045 1m	**Shale: 80%,** black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, slightly calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, frequent slickensides. **Sandstone: 15%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows.
2045 – 2055 10m	**Shale: 65%,** black, black, dark gray, gray brown, trace light green & red brown, blocky to platy, elongate, hard, splintery, silty, slightly calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, frequent slickensides. **Sandstone: 30%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-13	50

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2085.0m	2004.73	29.0 m	Yellow Point	Drilling ahead @ 2087mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	55.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2033.84	22.93^0	109.75^0	1956.89	366.37	3.66		-33.93	365.76
2062.24	22.90^0	115.37^0	1983.05	377.12	2.31		-38.17	375.96
2075.97	22.95^0	116.43^0	1995.70	382.26	0.91		-40.50	380.77

Summary of Previous 24 Hours

Continue to Ream & clean from 1998m to 2056m. Drill ahead to 2085m.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1195kg/m3	73	to hole $8.9cm^3$	22/13.9	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
18	311	Hughes GX-35DX	2044	6.3	2.00	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2056 to 2083	1.9	4.1	0.8	Sh+Ss+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2056 to 2083	0.92-0.33	0.87-0.27	.02	.01	tr	tr	Avg. Bkgd gas=0.47

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038

Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473	2375			
Table Cove	2593	2495			
Table Point	2623	2525			

Remarks

MWD Sensors Depths: Dir=8.60m; Pressure=xx.xxm, Res=xx.xxm; GR=9.52m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-13	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2055 – 2060 5m	**Shale: 70%,** dark to medium gray, gray brown, green gray, blocky to platy, hackly, firm to hard, in part earthy to smooth, trace waxy, calcareous, silty, micro micaceous. **Sandstone: 25%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows.
2060 – 2075 15m	**Shale: 65%,** dark to medium gray, gray brown, green gray, blocky to platy, hackly, firm to hard, in part earthy to smooth, trace waxy, calcareous, silty, micro micaceous. **Sandstone: 30%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.
2075 – 2080 5m	**Shale: 55%,** dark to medium gray, gray brown, green gray, blocky to platy, hackly, firm to hard, in part earthy to smooth, trace waxy, calcareous, silty, micro micaceous. **Sandstone: 40%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining,

	trace fine disseminated pyrite, tight, no shows.
2080 – 2085 5m	**Shale: 80%,** dark to medium gray, gray brown, green gray, blocky to platy, hackly, firm to hard, in part earthy to smooth, trace waxy, calcareous, silty, micro micaceous, trace chert. **Sandstone: 15%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-14	51

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2132.0m	2048.85	47.0 m	Yellow Point	Drilling ahead @ 2134mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	56.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2089.60	23.23^0	116.00^0	2008.24	387.37	0.72		-42.86	385.56
2103.19	23.24^0	115.48^0	2020.73	392.52	0.45		-45.19	390.39
2116.95	23.10^0	115.32^0	2033.38	397.73	0.33		-47.51	395.28

Summary of Previous 24 Hours

Drill ahead to 2132m with BHA: HUGHES GX-35DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1180kg/ m3	66	to hole $10.8cm^3$	23/11.5	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
18	311	Hughes GX-35DX	2044	43.4	2.09	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2083 to 2111	2.3	6.4	0.5	Ls+Sh+Ss
2113 to 2125	2.3	4.1	1.4	Ls+Sh+Ss
2080 to 2083	2.9	4.5	2.0	Sh+Ss+Ls
2111 to 2113	2.3	2.8	1.9	Ls+Sh+Ss
2125 to 2127	3.2	5.3	1.7	Ls+Sh+Ss

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2083 to 2111	1.23-0.32	1.17-0.28	.02	.01	tr	tr	Avg. Bkgd gas=0.56
2113 to 2125	1.45-0.51	1.88-0.46	.03	.01	tr	tr	
2080 to 2083	4.82	0.14	0.14	0.05	tr	tr	Max Gas
2111 to 2113	1.83	0.06	0.06	0.03	tr	tr	Max Gas
2125 to 2127	2.51	0.08	0.08	0.03	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473	2375			
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.60m; Pressure=xx.xxm, Res=xx.xxm; GR=9.52m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-14	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2085 – 2090 5m	**Shale: 70%,** dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside. **Sandstone: 15%,** salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Limestone: 13%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with occasional clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows. **Chert: 2%,** light gray, light brown, clear, very hard, brittle, conchoidal break.
2090 – 2100 10m	**Limestone: 70%,** buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fracture with frequent clear crystalline calcite, rare bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. **Shale: 20%,** dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside. **Sandstone: 8%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows. **Chert: 2%,** light gray, light brown, clear, very hard, brittle, conchoidal break.
2100 – 2110 10m	**Limestone: 70%,** buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fracture with frequent clear crystalline calcite, rare bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. **Shale: 20%,** dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous,

	trace carbonaceous specks, occasional slickenside. **Sandstone: 10%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.
2110 – 2130 20m	**Limestone: 70%,** buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. **Shale: 25%,** dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside. **Sandstone: 5%,** salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-15	52

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2173.0m	2086.23	41.0 m	Yellow Point	Drilling ahead @ 2175mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	57.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2130.53	22.96^0	115.40^0	2045.87	402.83	0.32	-49.79	400.08
2144.25	22.64^0	114.19^0	2058.52	407.96	1.24	-52.02	404.91
2158.03	22.15^0	113.07^0	2071.26	413.05	1.41	-54.12	409.72

Summary of Previous 24 Hours

Drill ahead to 2173m with BHA: HUGHES GX-35DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1180kg/m3	58	0.0cm^3	23/10.5	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
18	311	Hughes GX-35DX	2044	64.7	2.02	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2127 to 2138	2.7	5.3	1.7	Ls+Sh+Ss
2141 to 2142	2.8	3.6	1.8	Ls+Sh+Ss
2146 to 2148	4.1	7.4	2.6	Sh+Ls+Ss
2150 to 2170	1.9	5.4	1.1	Sh+Ls+Ss
2138 to 2141	3.6	15.1	1.9	Ls+Sh+Ss
2142 to 2146	2.2	4.1	1.4	Ls+Sh+Ss
2148 to 2150	4.7	8.5	3.4	Ls+Sh+Ss

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2127 to 2138	1.20-0.43	1.14-0.41	.03	.01	tr	tr	Avg. Bkgd gas=0.97
2141 to 2142	3.40-2.29	3.26-2.20	.07	.03	tr	tr	
2146 to 2148	2.48-2.08	2.37-2.00	.06	.03	tr	tr	
2150 to 2170	2.56-0.33	2.46-0.30	.03	.03	tr	tr	
2138 to 2141	64.89	63.00	1.70	0.12	.05	.02	Max Gas
2142 to 2146	70.74	68.85	1.72	0.12	.04	.01	Max Gas
2148 to 2150	4.60	4.46	0.10	0.04	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas **1.12**	Bkgrd Gas **0.41**	Time (Min) **0.10**	Depth **2168**	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			

Remarks

MWD Sensors Depths: Dir=8.60m; Pressure=xx.xxm, Res=xx.xxm; GR=9.52m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-15	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2130 – 2140 10m	**Limestone: 75%,** buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. TG=64.89% at 2138.4m. **Shale: 20%,** dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside, common nodule pyrite. **Sandstone: 5%,** salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.
2140 – 2145 5m	**Limestone: 55%,** buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. TG=70.74% at 2142.8m. **Shale: 40%,** dark gray, black, green gray, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, occasional slickenside, common nodule pyrite. **Sandstone: 5%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.
2145 – 2160 15m	**Shale: 60%,** dark gray, black, green gray, gray, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, minor slickenside, fine disseminated pyrite. **Limestone: 35%,** buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part

	dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. **Chert: 3%,** light green, clear, very hard, brittle, conchoidal break. **Sandstone: 2%,** salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.
2160 – 2170 10m	**Shale: 85%,** dark gray, black, green gray, gray, medium brown, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, minor slickenside, fine disseminated pyrite, trace chert. **Limestone: 15%,** light brown, off white, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fractures with frequent clear crystalline calcite, occasional bitumen staining, occasional fine disseminated pyrite, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-16	53

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2179.0m	2092.23	6.0 m	Yellow Point	Pressure Testing BOP's @ surface

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	58.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2130.53	22.96^0	115.40^0	2045.87	402.83	0.32	-49.79	400.08
2144.25	22.64^0	114.19^0	2058.52	407.96	1.24	-52.02	404.91
2158.03	22.15^0	113.07^0	2071.26	413.05	1.41	-54.12	409.72

Summary of Previous 24 Hours

Drill ahead to 2179m. Condition mud & circulate hole clean. POOH for bit change & pressure test BOP's. Pull tight from 2047m to 1970m. Flow check @ 2164m, 1947m, 1078m & 236m. Layout MWD tool & inspect power drive. Break off bit & rack back monels & power drive. Fill stack with water & rig up pressure tester. Conduct a complete BOP test.

Operations Forecast (next 24 Hours)

Make up new bit, MWD tool & Power drive. RIH & directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1180kg/m3	69	0.0cm^3	20/13.4	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
18	311	Hughes GX-35DX	2044	67.0	2.02	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2170 to 2179	1.7	2.4	1.1	Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2170 to 2179	0.52-0.36	0.49-0.32	.01	tr	tr	tr	Avg. Bkgd gas=0.40

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.60m; Pressure=xx.xxm, Res=xx.xxm; GR=9.52m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-16	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2170 – 2179 9m	**Shale: 90%,** green gray, red brown, dark gray black, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly to non calcareous, occasional carbonaceous specks, minor slickenside, occasional pyrite nodules, trace chert. **Limestone: 10%,** light brown, off white, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fractures with occasional white crystalline calcite, occasional bitumen staining, occasional fine disseminated pyrite, trace sandstone grains, tight, no shows. (POOH to change Bit & test BOP's)

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-17	54

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2183.0m	2095.22	4.0 m	Yellow Point	Drilling ahead @ 2183mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	58.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2158.03	22.15^0	113.07^0	2071.26	413.05	1.41	-54.12	409.72
2172.11	21.69^0	112.53^0	2084.33	418.16	1.07	-56.16	414.56

Summary of Previous 24 Hours

Successfully pressure test BOP's. Pick up BHA & change out Power Drive. Make up new bit, check float & install MWD tool. RIH & shallow test MWD @ 217m. Slip & cut drill line. Flow check @ 603m, 1578m. Pick up 31 singles DP. Ream & wash to bottom from 2080m to 2179m. Drill ahead to 2183m.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1180kg/ m3	62	to hole 0.0cm^3	17/13.9	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
19	311	Hughes GX-30MDX	2179	2.6	1.90	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2179 to 2182	2.2	4.2	1.3	Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2179 to 2182	0.45-0.35	0.42-0.34	.01	tr	tr	tr	Avg. Bkgd gas=0.40

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633

Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.62m; Pressure=xx.xxm, Res=xx.xxm; GR=9.54m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-17	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2179 – 2180 1m	**Shale: 90%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly to non calcareous, occasional carbonaceous specks, minor slickenside, occasional pyrite nodules, micro micaceous. **Limestone: 10%,** light brown, off white, mudstone, microcrystalline to cryptocrystalline, hard to firm, in part dolomitic, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-18	55

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2229.0m	2138.60	46.0 m	Yellow Point	Drilling ahead @ 2229mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	59.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2172.11	21.69^0	112.53^0	2084.33	418.16	1.07	-56.16	414.56
2199.58	20.11^0	112.74^0	2109.98	427.70	1.96	-60.00	423.60
2213.18	19.38^0	111.98^0	2122.78	432.18	1.71	-61.75	427.85

Summary of Previous 24 Hours

Drill ahead to 2229m with BHA: HUGHES GX-30MDX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory. Wiper trip before Wireline Logging.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1190kg/m3	63	0.9cm^3	18/13.4	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
19	311	Hughes GX-30MDX	2179	25.0	2.00	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2182 to 2223	2.1	4.6	0.8	Sh+Ls
2224 to 2225	2.6	3.0	2.0	Sh+Ls
2223 to 2224	2.0	3.4	1.2	Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2182 to 2223	0.51-0.24	0.49-0.23	.01	tr	tr	tr	Avg. Bkgd gas=0.31
2224 to 2225	0.69-0.45	0.65-0.43	.02	tr	tr	tr	
2223 to 2224	8.90	8.67	0.19	0.04	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**

Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.62m; Pressure=xx.xxm, Res=xx.xxm; GR=9.54m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-18	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2180 – 2205 25m	**Shale: 90%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non calcareous, occasional carbonaceous specks, frequent slickenside, occasional pyrite nodules, micro micaceous. **Limestone: 10%,** off white, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white crystalline dolomite, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.
2205 – 2225 20m	**Shale: 80%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non calcareous, occasional carbonaceous specks, frequent slickenside, occasional pyrite nodules, micro micaceous. **Limestone: 20%,** off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional white crystalline dolomite, fractures with frequent white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows. Total Gas up to 8.9% at 2223.4m.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-19	56

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2279.0m	2185.92	50.0 m	Yellow Point	Drilling ahead @ 2282mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	60.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2213.18	19.38^0	111.98^0	2122.78	432.18	1.71	-61.75	427.85
2254.70	17.34^0	113.79^0	2162.19	444.89	1.50	-66.76	439.89
2268.05	16.48^0	114.78^0	2174.97	448.64	2.04	-68.36	443.43

Summary of Previous 24 Hours

Drill ahead to 2279m with BHA: HUGHES GX-30MDX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Directionally drill ahead as per well plan trajectory to 2298mMD. Wiper trip before Wireline Logging with Schlumberger.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1210kg/m3	63	to hole 1.4cm^3	19/13.4	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
19	311	Hughes GX-30MDX	2179	46.9	2.19	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2225 to 2276	3.0	5.1	1.1	Sh+Ss+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2225 to 2276	0.51-0.24	0.49-0.23	.01	tr	tr	tr	Avg. Bkgd gas=0.64

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598

Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375			
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.62m; Pressure=xx.xxm, Res=xx.xxm; GR=9.54m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-19	Roland Strickland

Interval & Thickness	Description
1923m	**Yellow Point Formation**
2225 – 2230 5m	**Shale: 50%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non calcareous, occasional carbonaceous specks, frequent slickenside, occasional pyrite nodules, micro micaceous. **Sandstone: 30%,** light gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, hard to firm, consolidated with calcareous & silica cement, abundant lithic fragments, trace glauconite, 8 to 14% intergranular porosity, no shows. **Limestone: 20%,** off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional white crystalline dolomite, fractures with frequent white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.
2230 – 2240 10m	**Shale: 50%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non calcareous, occasional carbonaceous specks, frequent slickenside, occasional pyrite nodules, micro micaceous. **Sandstone: 40%,** light gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, very hard to firm, in part indurated, consolidated with calcareous cement, abundant lithic fragments, trace glauconite, 8 to 14% intergranular porosity, no shows. **Limestone: 10%,** off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional white crystalline dolomite, fractures with frequent white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.
2240 – 2250 10m	**Sandstone: 60%,** light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

	Shale: 35%, dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, minor slickenside, micro micaceous. **Limestone: 5%,** off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.
2250 – 2260 10m	**Shale: 50%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, minor slickenside, micro micaceous. **Sandstone: 45%,** light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows. **Limestone: 5%,** off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.
2260 – 2275 15m	**Shale: 60%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, minor slickenside, micro micaceous. **Sandstone: 35%,** light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows. **Limestone: 5%,** off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-20	57

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2298.5m	2204.32	19.5 m	Goose Tickle (American Tickle)	RIH @ 1214mMD

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	61.0	21.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2268.05	16.48^0	114.78^0	2174.97	448.64	2.04	-68.36	443.43
2288.06	15.26^0	116.08^0	2194.21	453.90	2.21	-70.68	448.38
2298.00	14.68^0	116.08^0	2203.82	456.36	1.75	-71.81	450.69

Summary of Previous 24 Hours

Drill ahead to 2298.5m. Condition mud and circulate. POOH and layout MWD tool and Power Drive. Pick up bit sub & crossover. RIH to conduct wiper trip.

Operations Forecast (next 24 Hours)

Wiper trip and start Wireline Logging with Schlumberger.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1225kg/m3	90	to hole $5.5cm^3$	24/21.1	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
19	311	Hughes GX-30MDX	2179	53.3	2.24	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2276 to 2289	3.9	30.0	1.2	Sh+Ss+Ls
2292 to 2298.5	2.8	8.0	1.5	Sh+Ss+Ls
2289 to 2292	4.5	24.0	1.8	Ss+Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2276 to 2289	1.47-0.33	1.41-0.30	.02	tr	tr	tr	Avg. Bkgd gas=0.63
2292 to 2298.5	0.69-0.49	0.66-0.44	.01	tr	tr	tr	
2289 to 2292	2.25	2.17	.05	.02	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**		**Actual**

	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Pos Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495			
Table Point	2623	2525			

Remarks

MWD Sensors Depths: Dir=8.62m; Pressure=xx.xxm, Res=xx.xxm; GR=9.54m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-20	Roland Strickland

Interval & Thickness	Description
2227m	**Goose Tickle Group (American Tickle Formation pos.)**
2275 – 2280 5m	**Shale: 55%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous. **Sandstone: 40%,** light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.
2280 – 2295 15m	**Sandstone: 55%,** light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows. **Shale: 40%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.
2295 – 2298.5 3.5m	**Sandstone: 60%,** light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, frequent friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to

	14% intergranular porosity, no shows. **Shale: 35%,** dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows. (TOTAL DEPTH. = 2298.5mMD at 14:55 hrs. 2010-04-19. Wireline & RIH with 244mm CASING)

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-21	58

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2298.5m	2185.92	0.0 m	Goose Tickle (American Tickle)	POOH @ 550mMD with Dipole Shear Imager logging tool.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	62.0	26.00	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2268.05	16.48^0	114.78^0	2174.97	448.64	2.04	-68.36	443.43
2288.06	15.26^0	116.08^0	2194.21	453.90	2.21	-70.68	448.38
2298.00	14.68^0	116.08^0	2203.82	456.36	1.75	-71.81	450.69

Summary of Previous 24 Hours

RIH and conduct wiper trip. Rig up Schlumberger Logging and conduct :
Run #1 Platform Express (Induction, SP, Neutron Density, GR & 1-axis Caliper from TD @ 2296.8m to Shoe @ 599.5m.
Run #2 Dipole Shear Imager (DSI) –PPC, P&S, Dipole, 4 Arm (2-axis) Caliper from 1850m to Shoe @ 599.5m.

Operations Forecast (next 24 Hours)

Run #3 MDT Wireline Logging with Schlumberger. RIH, conduct wiper trip and prepare to run 244mm casing.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1225kg/m3	90	to hole $5.5cm^3$	24/21.1	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
19	311	Hughes GX-30MDX	2179	53.3	2.24	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Pos Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.62m; Pressure=xx.xxm, Res=xx.xxm; GR=9.54m;					

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-22	59

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2298.5m	2185.92	0.0 m	Goose Tickle (American Tickle)	Circulate at 2298mMD waiting on cement

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	63.0	6.19	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2268.05	16.48^0	114.78^0	2174.97	448.64	2.04	-68.36	443.43
2288.06	15.26^0	116.08^0	2194.21	453.90	2.21	-70.68	448.38
2298.00	14.68^0	116.08^0	2203.82	456.36	1.75	-71.81	450.69

Summary of Previous 24 Hours

Schlumberger Logging and conduct :
Run #3 MDT – GR. RIH to 1423.5m and made 6 attempts to obtain pressure tests from 1423.5m to 932.7m. Unable to obtain a seal. Rig down all Schlumberger tools. RIH with Bit and minimum BHA. Circulate while waiting for more cement to arrive on site.

Operations Forecast (next 24 Hours)

Conduct a wiper trip and prepare to run 244mm casing.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
1834kg/m3 @ 601.0mTVD	Gel Chem	1215kg/m3	85	0.0cm^3	16/15.8	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@600m Next CSG(size/Depth)244@2643m
19	311	Hughes GX-30MDX	2179	53.3	2.24	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598

Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Pos Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=8.62m; Pressure=xx.xxm, Res=xx.xxm; GR=9.54m;					

Logging Report

Well Name	Wellsite Geologist(s)	Specialist(s) / Petrophysicist(s)	Date (mm/dd/yy)
Nalcor et al Seamus #1	Roland Strickland	Wayne Chipman & Erin Gillis	04/20/10

Wireline Contractor	Wireline Engineer(s)	Drilling Supervisor	Conveyance Method	Maximum Deviation (°)
Schlumberger	L.Conway & G. Au	Gord Stewart	Wireline	27.12

Requested Arrival Date (mm/dd/yy)	Requested Arrival Time (00:00)	Actual Arrival Date (mm/dd/yy)	Actual Arrival Time (00:00)	Field Cost
		04/20/2010	8:00	

Time Rig Up Commenced (mm/dd/yy 00:00)	Time Rig Down Completed (mm/dd/yy 00:00)	Driller Depth (m)	Logger Depth (m)	Difference (m)
04/20/2010 21:00	04/21/2010 14:00	2298.0	2296.8	-1.2

Interruptions in Logging Activities (Conditioning Trips, Hole Problems, Etc.)

Explanation	Interruption Start (mm/dd/yy 00:00)	Interruption End (mm/dd/yy 00:00)
Trouble Shooting 50V Plug	04/21/2010 9:00	04/21/2010 9:45

Service Summary, Failures and Log Quality

(Failures Must Be Non-Borehole Related)

Wireline Service	Run	Trip	Interval (m) Bottom	Interval (m) Top	Total Logged (m)	BHT (ºC)	Rig Up Time (00:00)	Rig Dwn Time (00:00)	Total Time (Hrs)	Lost Time (Hrs)	Calibration Failures/	Depth Control Failures?	Repeat Failures?	Logs Consistient With Offsets?	Tool Specific Failures/	Presentation Failures?	Log Quality Rating [1(poor) to 4(Excellent)]
Platform Express (Induction, SP, Neutron/Density, GR, 1-axis Caliper)	1	1	2296.8	599.5	1697.3	53	9:00	1:40	4.7		☐	☐	☐	☐	☐	☐	4
Dipole Shear Imager (DSI)	2	1	1870.0	599.5	1270.5	53	2:20	8:15	6.0		☐	☐	☐	☐	☐	☐	4
MDT - GR	3	1	1423.5	937.2	486.3	53	9:00	12:45	3.7		☐	☐	☐	☐	☐	☐	

Time Summary

Total Logging Time (hrs)	Total Lost Time (hrs)	Total Interruption Time (hrs)	Logging Efficiency (%)
14.4	0.0	0.8	100.0

Problems and Lost Time Details

Trouble Shoot 50V Plug for MDT Tool for 0.75 hrs.

Remarks

Run #1: (Platform Express): From 2296.8 to 599.5m. Caliper Log showed major Washout from 2200m to 1850m. Continuous washouts from 1850 to 599.5m. Logging run successful.
Run#2: (DSI): From 1870m to 599.5m. Logged successful. Logging started at 1870m because of severe hole washouts from 1870 to 2200m. Unable to run FMI tool because of washout conditions throughout the entire logging interval from 2296.5m to 599.5m.
Run#3: (MDT - GR): Made six (6) attempts to obtain pressure tests from 1423.5m to 937.2m. Unable to obtain a seal in the 4 different intervals.

Wireline Formation Test
Pressure Survey

Run/Trip	Date (mm/dd/yy)
3/1	04/21/2010

Well Name	Wellsite Geologist(s)	Petrophysicist(s)	Specialist Engineer(s)
Nalcor et al Seamus #1	Roland Strickland	Wayne Chipman/ Erin Gillis	F. Hinchey

Depths (m)				Formation	Deviation (°)	Hole Size (mm)	Log Porosity	Temperature (°C)
Bottom	1423.5	Top	937.2	Green Point & Shallow Bay	27.4	311	2-6	53.0

Formation Fluid Type						Drilling Fluid System				
☑	Gas	☐	Condensate	☑	Oil	☐	Water	☐	Oil Based	☑	Water Based	ppm

Tool Make-Up

☑ **MDT**		☐ **RCI**	
SGTL (Gamma Ray)	☐	Cablehead, TTRM Sub, GR, Power Section & Electronics.	
Power	☐	Single Packer Section	
Pumpout	☐	Draw Down Section	
Sample 1 Gallon X	☐	Pump Thru Section	
Sample 2.75 Gallon X	☐	Fluid Characterization	
Multi-Sample 6x450 cc	☐	Aux Power Section	
Flow Control	☐	Six Tank Section	
OFA	☐	Tank Control Section	
Hydraulics	☐	Extraction Sub	
Single Probe	☐	4 Litre Tank	
Dual Probe	☐	4 Litre Tank	
Dual Packer	☐	Sample View	
6 Gallon Sample	☐	R/C Sensor	

Survey Details

Objectives

Pressure Survey: ☐ Stratigraphic ☐ Gradients ☐ Fluid Contacts

Formation Sampling: ☐ Regular Sampling ☐ PVT Sampling

Permeability Estimation: ☐ Horizontal ☐ Anisotropy

Others (specify):

Pressure Survey

Time	Test #	Depth (m)	TVD (m)	Pretest Vol. (cc)	Hydrostatic Pressure (kPa)	Final Shut-In Pressure (kPa)	Calculated Perm. (md)	Comments
	1	1423.5	1406.3	10				No Seal
	2	1423.5	1406.3	20				No Seal:
	3	1420.5	1403.5	20				No Seal:
	4	1420.5	1403.5	20				No Seal:
	5	1414.0	1397.5	20				No Seal:
	6	937.2	932.7	20				No Seal:

Remarks:

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-27	60

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2337m	2242.34	39.0 m	Goose Tickle (American Tickle)	Drilling at 2341mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	68.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2288.06	15.26^0	116.08^0	2194.21	453.90	2.21	-70.68	448.38
2301.12	14.44^0	116.81^0	2206.84	457.11	1.93	-72.17	451.38
2315.09	12.39^0	113.31^0	2220.43	460.22	4.73	-73.55	454.31

Summary of Previous 24 Hours

Pick up 216mm BHA: HUGHES GX35DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. Swap out & reprogram MWD tool. RIH, condition mud & circulate. Treat mud for contamination due to cement prior to drill out. Drill cement: tag cement @ 2264.7m, plug @ 2265m, float collar @ 2265.6m, & shoe @ 2290.4m. Drill 216mm hole to 2303m. Condition mud & circulate x 2 prior to conducting FIT. Perform FIT with leak off gradient of 20.29, applied pressure of 21,000 kPa, at 2210mTVD for equivalent mud weight of 2000 kg/m3. Continue to drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead as per wellbore plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1110kg/ m3	42	to hole $0.0cm^3$	9.0/7.7	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
20	216	Hughes GX-35DX	2298	15.2	2.96	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2298 to 2320	2.9	12.3	0.6	Ss+Sh
2320 to 2334	3.3	12.7	1.1	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2298 to 2320	0.16	0.15	.01	.01	tr	tr	Bkgd Gas=0.16
2320 to 2334	0.16	0.15	.01	.01	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495			
Table Point	2623	2525			

Remarks

MWD Sensors Depths: Dir=17.33m; Pressure=xx.xxm, Res=xx.xxm; GR=18.26m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-27	Roland Strickland

Interval & Thickness	Description
2227m	**Goose Tickle Group (American Tickle Formation)**
2298 – 2305 7m	**Sandstone: 60%,** light to medium gray, speckled light gray green, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, trace nodular pyrite, minor serpentine + white crystalline calcite, 8 to 14% inter granular porosity, no shows. **Shale: 30%,** medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly calcareous, grading fine grained siltstone. **Cement: 10%,** light brown, hard to firm, in part brittle, fine to medium grained. (From setting 244mm Casing at 2290.4mMD.)
2305 – 2335 30m	**Sandstone: 70%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, frequent lithic fragments, trace nodular pyrite, minor serpentine + chromite, 8 to 14% intergranular porosity, no shows. **Shale: 30%,** medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly calcareous, grading fine grained siltstone, trace chert.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-28	61

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2415m	2319.76	78.0 m	Goose Tickle (American Tickle)	Drilling ahead at 2418mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	69.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2356.47	6.03^0	101.89^0	2261.30	466.44	3.38	-75.49	460.30
2369.89	4.16^0	95.35^0	2274.67	467.63	4.37	-75.68	461.47
2383.42	2.33^0	68.57^0	2288.18	468.36	5.17	-75.62	462.22

Summary of Previous 24 Hours

Drill ahead and directional slide & rotate to obtain the desired inclination and other survey parameters.

Operations Forecast (next 24 Hours)

Drill ahead as per wellbore plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1110kg/ m3	45	0.0cm^3	12.0/5.7	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
20	216	Hughes GX-35DX	2298	34.7	3.48	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2320 to 2396	4.4	12.9	1.39	Sh+Ss
2396 to 2412	4.0	7.8	1.0	Sh+Ss+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2320 to 2396	0.16	0.15	.01	.01	tr	tr	Bkgd Gas=0.16
2396 to 2412	0.16	0.15	.01	.01	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495			
Table Point	2623	2525			
Remarks **MWD Sensors Depths**: Dir=17.33m; Pressure=xx.xxm, Res=xx.xxm; GR=18.26m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-28	Roland Strickland

Interval & Thickness	Description
2227m	**Goose Tickle Group (American Tickle Formation)**
2335 – 2365 30m	**Sandstone: 75%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, frequent lithic fragments, very argillaceous, trace nodular pyrite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows. **Shale: 25%,** medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone.
2365 – 2395 30m	**Shale: 60%,** medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone. **Sandstone: 40%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, frequent white crystalline calcite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.
2395 – 2415 20m	**Shale: 60%,** medium gray, green gray, light brown, firm to hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks. **Sandstone: 30%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows. **Limestone: 10%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white crystalline calcite, tight, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-29	62

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2484m	2388.61	69.0 m	Goose Tickle (American Tickle)	Drilling ahead at 2485mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	70.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2438.59	5.06^0	339.90^0	2343.24	467.87	1.76	-72.63	462.22
2451.95	5.00^0	332.84^0	2356.55	467.23	1.40	-71.56	461.75
2465.35	4.85^0	317.62^0	2369.97	466.44	2.94	-70.62	461.10

Summary of Previous 24 Hours

Drill ahead and directional slide & rotate to obtain the desired inclination and other survey parameters.

Operations Forecast (next 24 Hours)

POOH for new Bit change. RIH & drill ahead as per wellbore plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1110kg/ m3	45	to hole 0.0cm^3	12.0/5.3	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
20	216	Hughes GX-35DX	2298	54.5	3.43	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2396 to 2467	3.6	10.8	0.99	Sh+Ss+Ls
2467 to 2480	3.2	5.9	1.4	Sh+Ss
2434 to 2435	4.6	5.5	3.7	Sh+Ss+Ls
2471 to 2472	4.2	5.3	3.2	Sh+Ss

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2396 to 2467	0.14-0.57	0.13-0.54	.01	tr	tr	tr	Bkgd Gas=0.33
2467 to 2480	0.26-0.34	0.24-0.32	.01	tr	tr	tr	
2434 to 2435	1.01	0.97	0.03	0.01	tr	tr	Max Gas
2471 to 2472	0.99	0.93	0.03	0.03	tr	tr	Max Gas

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495			
Table Point	2623	2525			

Remarks

MWD Sensors Depths: Dir=17.33m; Pressure=xx.xxm, Res=xx.xxm; GR=18.26m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-29	Roland Strickland

Interval & Thickness	Description
2227m	**Goose Tickle Group (American Tickle Formation)**
2415 – 2425 10m	**Shale: 60%,** medium gray, green gray, light brown, firm to hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks. **Sandstone: 30%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows. **Limestone: 10%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white crystalline calcite, tight, no shows.
2425 – 2435 10m	**Sandstone: 55%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows. **Shale: 40%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks. **Limestone: 5%,** light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white crystalline calcite, tight, no shows.
2435 – 2455 20m	**Sandstone: 60%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows. **Shale: 40%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous,

	grading fine grained siltstone, trace carbonaceous specks.
2455 – 2480 25m	**Shale: 65%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks. **Sandstone: 35%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, common white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-04-30	63

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2515m	2419.40	31.0 m	Goose Tickle (American Tickle)	Drilling ahead at 2518mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	71.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2465.35	4.85^0	317.62^0	2369.90	466.44	2.94	-70.62	461.10
2479.54	5.97^0	303.34^0	2384.03	465.29	3.69	-69.77	460.08
2492.90	7.43^0	305.26^0	2397.30	463.88	3.32	-68.89	458.79

Summary of Previous 24 Hours

Drill ahead to 2485m. Condition mud & circulate Btm's up sample. POOH with flow checks @ 2479m, 2341m & 1240m. Change out MWD tool and Bit. RIH with BHA: HUGHES GX-30DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. Shallow test MWD tool at 26m & 1192m. Wash last stand to bottom and ream hole from 2479m to 2485m. Drill ahead to 2501m in slide mode 57% of time to try and achieve planned survey parameters. Drill ahead to 2515m.

Operations Forecast (next 24 Hours)

Drill ahead in rotary and slide modes to maintain wellbore plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1110kg/m3	43	to hole $4.1cm^3$	12.0/6.2	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
21	216	Hughes GX-30DX	2485	9.8	3.57	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2467 to 2494	3.0	9.8	1.4	Sh+Ss
2494 to 2509	3.8	7.8	0.9	Sh+Ss
2489 to 2490	2.9	4.6	1.3	Sh+Ss
2503 to 2505	3.3	4.5	2.0	Sh+Ss

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2467 to 2494	0.26-0.99	0.22-0.95	.02	tr	tr	tr	Bkgd Gas=0.43
2494 to 2509	0.26-0.74	0.22-0.70	.02	tr	tr	tr	
2489 to 2490	1.26	1.21	0.03	0.02	tr	tr	Max Gas
2503 to 2505	5.64	5.51	0.10	0.02	tr	tr	Max Gas

Trip Gas % **1.19**	Bkgrd Gas% **0.53**	Pumps off (hrs) **11.5**	Depth m **2485.3**	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495			
Table Point	2623	2525			
Aguathuna 2	753	2655			

Remarks

MWD Sensors Depths: Dir=17.33m; Pressure=xx.xxm, Res=xx.xxm; GR=18.26m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-04-30	Roland Strickland

Interval & Thickness	Description
2227m	**Goose Tickle Group (American Tickle Formation)**
2480 – 2485 5m	**Shale: 60%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks **Sandstone: 40%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, common white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows. (**POOH for a new Bit change)**
2485 – 2495 10m	**Shale: 60%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks **Sandstone: 40%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, common white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.
2495 – 2510 15m	**Shale: 70%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickensides. **Sandstone: 30%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, fractures with frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-01	64

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2611m	2515.10	96.0 m	Table Cove	Drilling ahead at 2615mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	72.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2561.69	1.01^0	256.52^0	2465.81	459.24	2.75		-65.38	454.67
2575.28	0.82^0	257.81^0	2479.40	459.04	0.42		-65.43	454.46
2589.30	0.66^0	275.02^0	2493.43	458.87	0.58		-65.45	454.28

Summary of Previous 24 Hours

Directionally drill ahead to 2611m.

Operations Forecast (next 24 Hours)

Drill ahead in rotary and slide modes to maintain wellbore plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1120kg/ m3	45	to hole 5.9cm^3	11.0/5.3	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
21	216	Hughes GX-30DX	2485	29.6	4.46	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2509 to 2574	3.0	9.5	1.4	Sh+Ss
2574 to 2599	7.0	17.1	2.4	Sh+Ss+Ls
2511 to 2512	4.0	4.9	3.0	Sh+Ss
2525 to 2527	5.2	8.0	2.4	Ss+Sh
2590 to 2592	8.0	9.7	6.4	Ls+Sh
2594 to 2596	8.5	10.4	6.9	Ls+Sh
2599 to 2601	7.7	12.0	3.5	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2509 to 2574	0.23-0.93	0.19-0.87	.02	tr	tr	tr	Bkgd Gas=0.85
2574 to 2599	0.26-1.92	0.22-1.88	.02	tr	tr	tr	
2511 to 2512	1.86	1.79	0.04	0.02	tr	tr	Max Gas
2525 to 2527	2.23	2.15	0.05	0.02	tr	tr	Max Gas
2590 to 2592	11.77	11.64	0.09	0.04	tr	tr	Max Gas
2594 to 2596	4.11	4.05	0.04	0.01	tr	tr	Max Gas
2599 to 2601	3.17	3.11	0.03	0.01	tr	tr	Max Gas

Trip	Bkgrd	Pumps	Depth	Conn Gas	Bkgr	Time	Depth	**Est. Pore Pressure**	**Depth**

Gas %	Gas%	off (hrs)	m		d Gas	(Min)		**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473	2375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525			
Aguathuna	2753	2655			
Catoche	2793	2695			

Remarks

MWD Sensors Depths: Dir=17.33m; Pressure=xx.xxm, Res=xx.xxm; GR=18.26m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-01	Roland Strickland

Interval & Thickness	Description
2227m	**Goose Tickle Group (American Tickle Formation)**
2510 – 2525 15m	**Shale: 60%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks **Sandstone: 40%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, common white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.
2525 – 2545 20m	**Shale: 50%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite. **Sandstone: 50%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.
2545 – 2585 40m	**Shale: 75%,** medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite. **Sandstone: 25%,** light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2588m	**Table Cove Formation**
2585 – 2590 5m	**Shale: 70%,** dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks. **Limestone: 30%,** white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcareous, tight, no shows.
2590 – 2605 15m	**Limestone: 70%,** white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcareous, tight, no shows. **Shale: 30%,** dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks. **Total Gas up to 44.8% at 2601m.**

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-02	65

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2733m	2637.18	122.0 m	Table Point	Drilling ahead at 2733mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	73.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2684.94	1.11^0	352.26^0	2589.05	460.05	1.89	-65.45	455.48
2698.13	1.39^0	350.46^0	2602.23	459.96	0.64	-65.16	455.44
2712.00	1.40^0	339.12^0	2616.18	459.82	0.60	-64.84	455.35

Summary of Previous 24 Hours

Directionally drill ahead to 2651m. Condition mud & circulate. Wiper trip 14 stands to casing shoe at 2292.5m, pumping out 4 singles with flow check @ 2644m, 2519m & 2298m. Washed 4 singles back to bottom (wet trip). Continued to drill ahead to 2733m.

Operations Forecast (next 24 Hours)

Drill ahead in rotary and slide modes to maintain wellbore plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1125kg/ m3	45	to hole $0.0cm^3$	12.0/6.5	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
21	216	Hughes GX-30DX	2485	44.6	5.58	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2599 to 2689	7.7	12.1	2.6	Ls+Sh
2689 to 2722	8.5	12.3	3.6	Ls
2600 to 2602	9.4	12.0	6.8	Ls+Sh
2608 to 2609	9.7	13.0	6.4	Ls+Sh
2613 to 2614	7.2	9.1	5.3	Ls+Sh
2618 to 2620	5.7	8.2	3.2	Ls+Sh
2623 to 2625	7.6	9.0	5.3	Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2599 to 2689	0.36-4.78	0.33-4.71	.03	tr	tr	tr	Bkgd Gas=1.34
2689 to 2722	0.23-1.03	0.20-0.99	.01	tr	tr	tr	
2600 to 2602	44.83	44.42	0.35	0.04	0.01	tr	Max Gas
2608 to 2609	8.26	8.17	0.06	0.02	tr	tr	Max Gas
2613 to 2614	19.31	19.14	0.13	0.03	tr	tr	Max Gas
2618 to 2620	9.88	9.77	0.08	0.02	tr	tr	Max Gas
2623 to 2625	7.01	6.91	0.07	0.02	tr	tr	Max Gas

Trip Gas % **8.99**	Bkgrd Gas% **0.85**	Pumps off (hrs) **2.66**	Depth m **2651.0**	Conn Gas	Bkgr d Gas	Time (Min)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655			
Catoche 2	793	2695			
Boat Harbour	2953	2855			

Remarks

MWD Sensors Depths: Dir=17.33m; Pressure=xx.xxm, Res=xx.xxm; GR=18.26m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-02	Roland Strickland

Interval & Thickness	Description
2589m	**Table Cove Formation**
2605 – 2615 10m	**Limestone: 80%,** white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcite, tight, no shows. **Shale: 20%,** dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.
2619m	**Table Point Formation**
2615 – 2635 20m	**Limestone: 85%,** white, off white, buff, cream, light brown, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, frequent clear to white crystalline calcite, no visible porosity, no shows. **Shale: 15%,** dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.
2635 – 2650 15m	**Limestone: 90%,** light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows. **Shale: 10%,** dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.
2650 – 2725 75m	**Limestone: 90%,** light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

	Shale: 10%, dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m)

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-03	66

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2785m	2689.10	52.0 m	Table Point	Drilling ahead at 2786mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	74.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2725.00	1.02^0	344.00^0	2629.68	459.69	0.91	-64.58	455.26
2740.03	0.29^0	317.90^0	2644.13	459.60	1.54	-64.42	455.20
2754.05	0.40^0	147.88^0	2658.15	459.61	1.47	-64.44	455.20

Summary of Previous 24 Hours

Continued to drill ahead to 2767m. Condition mud & circulate. POOH for bit trip. No hole problems. Pick up new PDC Bit & RIH. Shallow test MWD tool. Slip & cut 22m of drilling line. Wash & ream last 2 singles to bottom. Drill ahead with BHA: HUGHES GX-30DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Drill ahead in rotary and slide modes to maintain wellbore plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1130kg/m3	43	to hole $0.0cm^3$	11.0/6.2	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
21	216	Hughes GX-30DX	2485	51.0	5.52	
22	216	Hughes HCD-506Z	2767	3.5	5.71	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2723 to 2767	8.6	17.9	4.0	Ls
2767 to 2772	5.8	9.8	1.1	Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2723 to 2767	0.15-1.75	0.15-1.71	.01	tr	tr	tr	Bkgd Gas=0.51
2767 to 2772	0.25-2.95	0.25-2.80	.02	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	Est. Pore Pressure	Depth
8.11	**0.51**	**14.0**	**2767.0**					**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655			
Catoche 2	793	2695			
Boat Harbour	2953	2855			
Watts Bight	3083	2985			

Remarks

MWD Sensors Depths: Dir=17.44m; Pressure=xx.xxm, Res=xx.xxm; GR=18.33m;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-03	Roland Strickland

Interval & Thickness	Description
2619m	**Table Point Formation**
2725 – 2767 42m	**Limestone: 95%,** white, white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, frequent bitumen staining, no visible porosity, no shows. **Shale: 5%,** dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m) (POOH for Bit Change at 2767m)
2767 – 2775 8m	**Limestone: 90%,** white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, frequent bitumen staining, slightly dolomitic, no visible porosity, no shows **Shale: 10%,** dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m)

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-04	67

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2824m	2728.08	39.0 m	Aguathuna	Drilling ahead at 2825mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	75.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2781.05	1.05^0	149.86^0	2685.14	459.81	0.55	-64.76	455.36
2792.62	1.13^0	156.70^0	2696.71	459.94	0.40	-64.95	455.46
2811.40	1.27^0	166.60^0	2715.48	460.13	0.40	-65.33	455.58

Summary of Previous 24 Hours

Drill ahead to 2811m. POOH because of slow ROP. Pump out 4 singles & flow check @ 2795m, 2658m, 1445m & 263m. Pull MWD tool & install new tool, change to new Tri-Cone Bit. RIH and drill ahead to 2824m.

Operations Forecast (next 24 Hours)

Drill ahead in rotary and slide modes to maintain wellbore plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1130kg/ m3	43	to hole 0.0cm^3	11.0/6.2	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
22	216	Hughes HCD-506Z	2767	10.5	4.19	
23	216	Hughes GX-35DX	2811	3.9	3.84	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2778 to 2811	5.5	9.8	1.5	Dol+Ls
2811 to 2816	5.4	7.4	3.3	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2778 to 2811	0.07-0.48	0.06-0.46	.01	tr	tr	tr	Bkgd Gas=0.26
2811 to 2816	0.13-0.19	0.12-0.18	tr	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgr d Gas	Time (Min)	Depth	Est. Pore Pressure	Depth
2.10	**0.26**	**12.0**	**2811.0**					**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15

Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695			
Boat Harbour	2953	2855			
Watts Bight	3083	2985			
Berry Head	3158	3060			
Remarks **MWD Sensors Depths**: Dir=17.44m; Pressure=xx.xxm, Res=xx.xxm; GR=18.33m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-04	Roland Strickland

Interval & Thickness	Description
2770m	**Pos Aguathuna Formation**
2775 – 2780 5m	**Limestone: 50%,** white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, frequent bitumen staining, slightly dolomitic, no visible porosity, no shows. **Dolomite: 40%,** white, off white, light brown, microcrystalline to crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, trace bitumen staining, poor intercrystalline porosity, no shows. **Shale: 10%,** dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks.
2780 – 2811 31m	**Dolomite: 75%,** white, light to dark brown, off white, buff, microcrystalline to fine crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, blocky to platy, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows. **Limestone: 20%,** white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, no visible porosity, no shows. **Shale: 5%,** light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous. (POOH at 2811m to pickup new Bit)
2811 – 2820 9m	**Dolomite: 75%,** off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, minor sucrosic, firm to hard, in part brittle, blocky to platy, fine disseminated pyrite, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows. **Limestone: 25%,** white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, no visible porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-05	68

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2842m	2747.09	18.0 m	Catoche	POOH at 45mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	76.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2792.62	1.13^0	156.70^0	2696.71	459.94	0.40	-64.95	455.46
2811.40	1.27^0	166.60^0	2715.48	460.13	0.40	-65.33	455.58
2821.66	1.37^0	162.73^0	2726.75	460.23	0.39	-65.56	455.64

Summary of Previous 24 Hours

Drill ahead to 2842m. Condition mud & circulate bottoms up. POOH to trip Bit for high torque and pump pressure increase.

Operations Forecast (next 24 Hours)

Lay down all Schlumberger Directional Tools. RIH with Rotary BHA and drill ahead.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1135kg/ m3	57	to hole 0.0cm^3	16.0/9.6	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
23	216	Hughes GX-35DX	2811	18.3	1.69	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2816 to 2842	2.8	6.8	0.6	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2816 to 2842	0.04-0.19	0.04-0.18	.01	tr	tr	tr	Bkgd Gas=0.09

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	**Est. Pore Pressure**	**Depth**
								xxxxkg/m3	**xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633

Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855			
Watts Bight	3083	2985			
Berry Head	3158	3060			
Remarks **MWD Sensors Depths**: Dir=17.44m; Pressure=xx.xxm, Res=xx.xxm; GR=18.33m;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-05	Roland Strickland

Interval & Thickness	Description
2823m	**Catoche Formation**
2820 – 2842 22m	**Dolomite: 85%,** white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, common sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, fine disseminated pyrite, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows. **Limestone: 10%,** white, cream, buff, gray, light brown, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows. **Shale: 5%,** light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous. (POOH: Slow ROP. Lay down Directional Tool & Pickup new Bit.)

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-06	69

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2882m	2747.09	40.0 m	Catoche	Drilling ahead @ 2886mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	77.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2821.66	1.37^0	162.73^0	2725.74	460.25	0.29	-65.54	455.67
2842.00	1.00^0	169.46^0	2746.08	460.42	0.58	-65.95	455.78
2863.00	1.30^0	195.00^0	2767.08	460.46	0.84	-66.36	455.75

Summary of Previous 24 Hours

Lay down directional tools. Pick up BHA: HUGHES HR-044GDX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe – Singles. Pick up Teledrift. RIH & fill pipe. Slip & cut 12.6m of line. Function test accumulator. Continue to RIH. Ream & clean hole from 2817m to 2842m. Drill ahead to 2882m.

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1135kg/m3	57	to hole 0.0cm^3	16.0/9.1	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
23	216	Hughes GX-35DX	2811	19.3	1.60	
24	216	HR-044GDX	2842	14.3	3.14	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2842 to 2860	2.7	5.3	0.6	Dol+Ls
2860 to 2875	3.46	7.1	1.6	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2842 to 2860	0.12-0.76	0.12-0.74	.01	tr	tr	tr	Bkgd Gas=0.19
2860 to 2875	0.11-0.32	0.11-0.31	.01	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Time (Min)	Depth	Est. Pore Pressure	Depth
4.59	**0.10**	**14.2**	**2842**					**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	**Prognosed**		**Actual**

	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855			
Watts Bight	3083	2985			
Berry Head	3158	3060			
Remarks **MWD Sensors Depths**: Dir=xxxxm; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-06	Roland Strickland

Interval & Thickness	Description
2823m	**Catoche Formation**
2842 – 2870 28m	**Dolomite: 85%,** white, white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, common sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear rhombic crystals, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows. **Limestone: 15%,** cream, buff, gray, light brown, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows.
2870 – 2880 10m	**Dolomite: 85%,** medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear rhombic crystals, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows. **Limestone: 15%,** cream, buff, gray, light brown, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-07	70

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2921m	2825.08	39.0 m	Catoche	Drilling ahead @ 2921mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	78.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2877.00	1.20^0	195.00^0	2781.08					
2891.00	1.00^0	193.00^0	2795.08					
2905.00	1.30^0	215.00^0	2809.08					

Summary of Previous 24 Hours

Drill ahead to 2921m. Conduct Teledrift surveys at 14m intervals.

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1115kg/ m3	47	to hole 0.0cm^3	13.0/7.2	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
24	216	HR-044GDX	2842	36.8	2.17	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2879 to 2913	3.1	8.6	0.6	Dol+Ls
2913 to 2919	1.7	3.8	0.8	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2879 to 2913	0.11-0.26	0.11-0.26	tr	tr	tr	tr	Bkgd Gas=0.20
2913 to 2919	0.13-0.24	0.13-0.24	tr	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	Est. Pore Pressure	Depth
				0.54 **0.46**	**0.14** **0.14**	**0.12** **0.10**	**2903** **2918**	**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473	2375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna	2753	2655		2770	2674
Catoche	2793	2695		2823	2727
Boat Harbour	2953	2855			
Watts Bight	3083	2985			
Berry Head	3158	3060			
Remarks **MWD Sensors Depths**: Dir=xxxxm; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-07	Roland Strickland

Interval & Thickness	Description
2823m	**Catoche Formation**
2880 – 2895 15m	**Dolomite: 85%,** medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows. **Limestone: 15%,** light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, trace clear calcite veining, grading dolomitic, no visible porosity, no shows.
2895 – 2905 10m	**Dolomite: 50%,** mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear dolo-rhombic stringers, stylolitic, frequent bitumen staining, poor to scattered fair intercrystalline porosity, no shows. **Limestone: 50%,** mottled light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, chalky, stylolitic with frequent bitumen staining, occasional clear calcite veining, no visible porosity, no shows.
2905 – 2920 15m	**Dolomite: 70%,** mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, trace siliceous, blocky to platy, minor disseminated fine grained pyrite, occasional veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows. **Limestone: 30%,** light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, chalky, stylolitic with occasional bitumen staining, occasional clear calcite veining, no visible porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-08	71

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2932m	2836.08	11.0 m	Catoche	Drilling ahead @ 2934mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	79.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2877.00	1.20^0	195.00^0	2781.08					
2891.00	1.00^0	193.00^0	2795.08					
2905.00	1.30^0	215.00^0	2809.08					
2917.00	1.30^0	205.00^0	2821.08					

Summary of Previous 24 Hours

Drill ahead to 2924. Circulate bottoms up sample. Slow ROP. POOH for new bit. Lay down 12 singles of heavy weight rental pipe. Continue to POOH & function test blind rams. Make up new bit & BHA. RIH to 102m. Pick up 8 singles of rig supplied heavy weight pipe. Continue to RIH. Downtime for 2.25hrs to repair exhaust manifold leak on floor motor. Wash last single to bottom, no fill. Drill ahead to 2932m.

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1120kg/m3	46	to hole $0.0cm^3$	13.0/7.2	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
24	216	Hughes HR-044GDX	2842	37.8	2.17	
25	216	Reed R40APDH	2942	3.9	2.56	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2919 to 2924	1.1	1.8	0.9	Dol+Ls
2924 to 2928	3.0	4.9	1.2	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2919 to 2924	0.13-0.48	0.13-0.47	tr	tr	tr	tr	Bkgd Gas=0.20
2924 to 2928	0.16-0.48	0.16-0.47	tr	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	Est. Pore Pressure	Depth
4.20	**0.21**	**17**	**2924**					**xxxxkg/m3**	**xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473	2375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna	2753	2655		2770	2674
Catoche	2793	2695		2823	2727
Boat Harbour	2953	2855			
Watts Bight	3083	2985			
Berry Head	3158	3060			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-08	Roland Strickland

Interval & Thickness	Description
2823m	**Catoche Formation**
2920 – 2924 4m	**Dolomite: 85%,** mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, minor disseminated fine grained pyrite, occasional veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows. **Limestone: 15%,** light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, chalky, stylolitic with occasional bitumen staining, occasional clear calcite veining, no visible porosity, no shows. (POOH for new BIT.)
2924 – 2930 6m	**Dolomite: 85%,** mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, occasional sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, minor disseminated fine grained pyrite, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows. **Limestone: 15%,** light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, chalky, stylolitic with occasional bitumen staining, occasional clear calcite veining, no visible porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-09	72

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2979m	2883.08	47.0 m	Boat Harbour	POOH @ 2051mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	80.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2931.00	0.80^0	193.00^0	2835.08					
2946.00	0.70^0	211.00^0	2850.08					
2959.00	1.00^0	209.00^0	2863.08					

Summary of Previous 24 Hours

Drill ahead to 2979m. Problems with pressure increases. Condition mud & circulate bottoms up. POOH to change mud motor and bit. Pump out 27 singles of pipe because of tight hole conditions. POOH and flow check at 2966m, 2629m & 2436m. Continue to POOH.

Operations Forecast (next 24 Hours)

POOH and make up new mud motor and bit. RIH & drill ahead in rotary mode as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1120kg/ m3	50	to hole $0.0cm^3$	14.0/7.2	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
25	216	Reed R40APDH	2942	19.3	1.91	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2928 to 2976	3.1	6.7	0.8	Ls+Dol
2976 to 2979	0.7	3.8	0.2	Ls+Dol
2976 to 2979	4.2	6.7	2.3	Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2928 to 2976	0.11-0.70	0.10-0.67	tr	tr	tr	tr	Bkgd Gas=0.20
2976 to 2979	0.01-1.05	0.01-1.02	0.01	tr	tr	tr	
2976 to 2979	1.41	1.39	0.01	0.01	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473	2375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna	2753	2655		2770	2674
Catoche	2793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985			
Berry Head	3158	3060			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-09	Roland Strickland

Interval & Thickness	Description
2934m	**Boat Harbour Formation**
2930 – 2955 25m	**Limestone: 80%,** light medium to light brown, cream, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, occasional fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows. **Dolomite: 20%,** light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.
2955 – 2975 20m	**Limestone: 90%,** light medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional to frequent clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows. **Dolomite: 10%,** mottled light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.
2975 – 2979 4m	**Limestone: 90%,** light medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows **Dolomite: 10%,** light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

	(Poor quality sample. Mainly sawdust + Shale cavings from Goose Tickle Formation. POOH to change out Mud Motor)

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-10	73

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	2999m	2903.08	20.0 m	Boat Harbour	Drilling ahead @ 3000mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	81.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2931.00	0.80^0	193.00^0	2835.08					
2946.00	0.70^0	211.00^0	2850.08					
2959.00	1.00^0	209.00^0	2863.08					
2986.00	1.00^0	209.00^0	2890.08					

Summary of Previous 24 Hours

Continue to POOH. Lay down mud motor (bearing section damaged). Pick up new motor & rescribe. Make up new bit & BHA: HUGHES GX-44DX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP (5.0 IN), Drill pipe - Stands, Drill pipe - Singles. RIH, slip & cut line. Pick up 25 singles. Wash from 2970m to 2997m. Drill ahead to 2999m. Increase mud density to 1200kg/m3.

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1200kg/m3	54	to hole $0.0cm^3$	17.0/8.1	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
26	216	Hughes GX-44DX	2979	11.0	1.91	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2979 to 2984	2.3	4.7	1.3	Ls+Dol
2984 to 2995	2.5	3.9	1.2	Ls+Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2979 to 2984	0.22-0.97	0.21-0.95	tr	tr	tr	tr	Bkgd Gas=0.42
2984 to 2995	0.19-0.29	0.19-1.28	tr	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**
4.37	0.80	15.5	4979						

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Humber Arm Allochon (HAA)	0	0		15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475	1450		1529	1502
Zone 2 (pos Eagle Island)	1859	1800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473	2375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna	2753	2655		2770	2674
Catoche	2793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985			
Berry Head	3158	3060			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-10	Roland Strickland

Interval & Thickness	Description
2934m	**Boat Harbour Formation**
2979 – 2995 16m	**Limestone: 90%,** medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows **Dolomite: 10%,** light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-11	74

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	3050m	2954.08	51.0 m	Boat Harbour	Drilling ahead @ 3050mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	82.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2986.00	1.10^0	192.00^0	2890.08				
3000.00	0.90^0	209.00^0	2904.08				
3013.00	0.80^0	174.00^0	2917.08				
3037.00	0.40^0	211.00^0	2941.08				

Summary of Previous 24 Hours

Continue to drill ahead to 3050m. Teledrift survey. Reduce mud weight to 1130kg/m3.

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory. Plan to POOH for Bit trip.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1130kg/ m3	48	to hole 0.0cm^3	12.0/6.2	550mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
26	216	Hughes GX-44DX	2979	33.0	2.18	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2987 to 3035	2.3	7.9	1.0	Ls+Dol
3035 to 3046	2.9	3.9	1.9	Ls+Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2987 to 3035	0.09-0.29	0.08-0.27	tr	tr	tr	tr	Bkgd Gas=0.14
3035 to 3046	0.06-0.12	0.06-0.11	tr	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgr d Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm	0	0		15	15

Allochon (HAA)					
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985			
Berry Head	3158	3060			
Remarks **MWD Sensors Depths**: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-11	Roland Strickland

Interval & Thickness	Description
2934m	**Boat Harbour Formation**
2995 – 3035 40m	**Limestone: 95%,** medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows. **Dolomite: 5%,** light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.
3035 – 3045 10m	**Limestone: 80%,** medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows. **Dolomite: 20%,** buff, cream, microcrystalline to fine crystalline, massive, occasional sucrosic texture, trace evidence of recrystallization, hard to firm cementation, brittle, platy, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-12	75

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	3079m	2983.08	29.0 m	Watts Bight	POOH @ 1644mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	83.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
3037.00	0.40^0	211.00^0	2941.08				
3041.00	0.40^0	159.00^0	2945.08				
3055.00	0.60^0	222.00^0	2959.08				

Summary of Previous 24 Hours

Continue to drill ahead to 3071m. Trouble shoot Pason depth tracker. Drill ahead to 3079m. Circulate & condition mud. POOH to change Mud Motor, BHA & Bit. Trip out of hole & pump out singles. Trouble shoot electrical problems with Draw works. Continue to POOH with stands.

Operations Forecast (next 24 Hours)

Continue to POOH. Lay down some HD drill pipe and Pickup Mud Motor & make up new Bit. Drill ahead in rotary mode as per well plan trajectory to FTD.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1140kg/ m3	56	to hole $0.0cm^3$	16.0/9.1	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
26	216	Hughes GX-44DX	2979	45.7	2.18	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
3048 to 3079	2.4	6.8	0.77	Ls+Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
3048 to 3079	0.05-0.16	0.04-0.15	tr	tr	tr	tr	Bkgd Gas=0.09

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm	0	0		15	15

Allochon (HAA)					
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985		3059	2963
Berry Head	3158	3060			
Remarks **MWD Sensors Depths**: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-12	Roland Strickland

Interval & Thickness	Description
2934m	**Boat Harbour Formation**
3045 – 3059 14m	**Limestone: 80%,** medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows. **Dolomite: 20%,** light brown, buff, cream, microcrystalline to fine crystalline, occasional coarse crystalline, massive, occasional sucrosic texture, trace evidence of recrystallization, hard to firm cementation, brittle, platy, occasional fine disseminated pyrite, common bitumen staining, poor intercrystalline porosity, no shows.
3059m	**Watts Bight Formation**
3059 – 3070 11m	**Dolomite: 75%,** light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sub sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows. **Limestone: 25%,** medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.
3070 – 3079 9m	**Dolomite: 90%,** light brown, off white, buff, cream, microcrystalline to abundant coarse crystalline, massive, frequent sub sucrosic texture, frequent evidence of recrystallization, occasional veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows. **Limestone: 10%,** medium to light brown, cream, buff, dark brown,

	mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows. (POOH to change Mud Motor & Bit)

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-13	76

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	3079m	2983.08	0.0 m	Watts Bight	Drill ahead @ 3080mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	84.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
3037.00	0.40^0	211.00^0	2941.08				
3041.00	0.40^0	159.00^0	2945.08				
3055.00	0.60^0	222.00^0	2959.08				

Summary of Previous 24 Hours

Lay out 4 HW drill pipe, 2 drill collars & mud motor. Pull wear bushing & rig in BJ pressure unit. Pressure test BOP's, choke manifold & related well control equipment. Test all rams, annular preventor, all valves, choke line & choke manifold. All test 1500 kPa low, 21000 kPa high for 10 min. Make up new Tri-cone bit & mud motor & RIH.

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory to FTD.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1145kg/m3	56	to hole 0.0cm^3	16.0/9.1	500mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
26	216	Hughes GX-44DX	2979	46.1	2.18	
27	216	Reed R40ADH	3079			

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
3048 to 3079	2.4	6.8	0.77	Ls+Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks Bkgd Gas=0.09

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**

Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985		3059	2963
Berry Head	3158	3060			
Remarks **MWD Sensors Depths**: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-14	77

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	3121m	2983.08	42.0 m	Watts Bight	Drill ahead @ 3122mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	85.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
3037.00	0.40^0	211.00^0	2941.08				
3041.00	0.40^0	159.00^0	2945.08				
3055.00	0.60^0	222.00^0	2959.08				
3079.00	0.30^0	247.00^0	2983.08				

Summary of Previous 24 Hours

Drill ahead to 3121m with BHA: REED R40ADH, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, HWDP(5.0 IN)-+, Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory to FTD.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1150kg/ m3	53	to hole 0.0cm^3	15.0/7.7	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)xxx@xxxxm
27	216	Reed R40ADH	3079	21.3	2.01	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
3079 to 3106	2.4	9.8	0.8	Dol+Ls
3106 to 3118	2.6	4.2	1.3	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
3079 to 3106	0.68-2.11	0.64-1.99	0.04	0.03	tr	tr	Bkgd Gas=1.17
3106 to 3118	0.73-1.17	0.69-1.10	0.03	0.02	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgr d Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**
3.85	**0.12**	**15**	**3079**						

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**

Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985		3059	2963
Berry Head	3158	3060			
Remarks **MWD Sensors Depths**: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-14	Roland Strickland

Interval & Thickness	Description
3059m	**Watts Bight Formation**
3079 – 3107.5 28.5m	**Dolomite: 90%,** light mottled light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows. **Limestone: 10%,** medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.
3107.5 – 3110 2.5m	**Dolomite: 90%,** mottled light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, occasional evidence of recrystallization, minor veining with coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to occasional fair intercrystalline porosity, no shows. **Limestone: 9%,** medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows. **Chert: 1%,** light brown, off white, very hard, conchoidal.
3110 – 3117.5 7.5m	**Dolomite: 90%,** white, off white, buff, cream, microcrystalline to fine crystalline, massive, common sucrosic texture, occasional evidence of recrystallization, minor veining with coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows. **Limestone: 10%,** medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-15	78

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	3160m	3064.08	39.0 m	Berry Head	Drawworks problems @ 2859mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	86.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
3107.00	0.50^0	234.00^0	3011.08				
3112.00	0.30^0	151.00^0	3016.08				
3135.00	0.50^0	166.00^0	3039.08				
3147.00	1.00^0	200.00^0	3051.08				

Summary of Previous 24 Hours

Drill ahead to FTD @ 3160m. Circulate Bottom's up sample & wiper trip to 2735m. Trouble shoot Drawworks motor. Wait on Mechanic to repair motor.

Operations Forecast (next 24 Hours)

Repair Drawworks motor. POOH and rig up to wireline log hole. Four (4) logging runs planned.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1165kg/m3	57	0.0cm^3	18.0/10.1	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)177@3160m
27	216	Reed R40ADH	3079	33.2	2.43	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
3118 to 3160	3.6	11.5	1.2	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
3118 to 3160	0.50-0.95	0.47-0.89	0.02	0.01	tr	tr	Bkgd Gas=0.78

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15

Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985		3059	2963
Berry Head	3158	3060		3032	3128
Final Total Depth	3178	3080		3160	3064
Remarks **MWD Sensors Depths**: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location	Date	Wellsite Geologist
Nalcor et al Seamus # 1	2010-05-15	Roland Strickland

Interval & Thickness	Description
3059m	**Watts Bight Formation**
3117.5 – 3128 10.5m	**Dolomite: 85%,** light off white, light brown, buff, microcrystalline to fine crystalline, massive, minor sucrosic texture, hard to firm, relic texture of original limestone, moderate to well cemented with dolosparite, in part brittle, platy, minor fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows. **Limestone: 15%,** buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.
3128m	**Berry Head Formation**
3128 – 3137.5 7.5m	**Dolomite: 90%,** off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, in part brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows. **Limestone: 7%,** buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows. **Chert: 3%,** light brown, pale white, very hard, conchoidal.
3137.5 – 3150 12.5m	**Dolomite: 90%,** off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, occasional sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, abundant brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows. **Limestone: 9%,** buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible

	porosity, no shows. **Chert: 1%,** light brown, pale white, very hard, conchoidal.
3150 – 3160 10m	**Dolomite: 90%,** off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, occasional sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, abundant brittle, platy, occasional friable, frequent fine disseminated pyrite, stylolitic, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows. **Limestone: 10%,** buff, buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows. **(FTD=3160m: 2010-04-14 at 20:10hrs)**

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-16	79

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	3160m	3064.08	0.0 m	Berry Head	Logging @ 3100mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	87.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
3107.00	0.50^0	234.00^0	3011.08				
3112.00	0.30^0	151.00^0	3016.08				
3135.00	0.50^0	166.00^0	3039.08				
3147.00	1.00^0	200.00^0	3051.08				

Summary of Previous 24 Hours

Repair Drawworks motor & POOH. Lay down BHA & break bit. Rig up & RIH with Logging Run #1 Platform Express (Induction, SP, Neutron/Density, GR & 1-axis Caliper). Unable to get to 3160m. Started logging @ 3127.5m. Successful logging run to the shoe @ 2292.5m. Rig down Platform Express. Rig up Logging Run #2 FMI & DSI tools. RIH to 3127.5m & start logging. Unable to run FMI & DSI concurrently. Logged only FMI to the shoe (2292.5m). RIH to 3116m and start logging DSI to 1550m.

Operations Forecast (next 24 Hours)

Run # 3 logging MDT & logging Run# 4 VSI.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1165kg/m3	57	0.0cm^3	18.0/10.1	600mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)177@3160m
27	216	Reed R40ADH	3079	33.2	2.43	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
3118 to 3160	3.6	11.5	1.2	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
3118 to 3160	0.50-0.95	0.47-0.89	0.02	0.01	tr	tr	Bkgd Gas=0.78

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**

Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985		3059	2963
Berry Head	3158	3060		3032	3128
Final Total Depth	3178	3080		3160	3064
Remarks **MWD Sensors Depths**: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-17	80

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	3160m	3064.08	0.0 m	Berry Head	RIH @ 2933mMD.

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	88.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
3107.00	0.50^0	234.00^0	3011.08				
3112.00	0.30^0	151.00^0	3016.08				
3135.00	0.50^0	166.00^0	3039.08				
3147.00	1.00^0	200.00^0	3051.08				

Summary of Previous 24 Hours

Log DSI to 1550m. Rig down FMI-DSI tools and rig up MWD with packer tools. Run in hole to 2602.5 and set packers between 2602.5m & 2601.5m. Unable to obtain pressure test, formation tight. Set MDT packers between 2600m & 2599m. Unable to obtain pressure test, formation tight. POOH with MDT tools and rig down. RIH with rotary BHA & Bit to complete wiper trip.

Operations Forecast (next 24 Hours)

Complete wiper trip to 3160m. POOH & complete Logging Run# 4, VSP survey.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1170kg/ m3	60	to hole $0.0cm^3$	18.0/10.5	650mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)177@3160m
27	216	Reed R40ADH	3079	33.2	2.43	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
3118 to 3160	3.6	11.5	1.2	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
3118 to 3160	0.50-0.95	0.47-0.89	0.02	0.01	tr	tr	Bkgd Gas=0.78

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm	0	0		15	15

Allochon (HAA)					
Lower Head	100	100		25	25
Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985		3059	2963
Berry Head	3158	3060		3032	3128
Final Total Depth	3178	3080		3160	3064
Remarks **MWD Sensors Depths**: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Daily Geological Report

Well Name & Location	Geologist	Date	Report No.
Nalcor et al Seamus # 1	Roland Strickland	2010-05-18	81

Current Information

Time	Depth(MD)	Depth(TVD)	Progress	Formation	Status
07:00	3160m	3064.08	0.0 m	Berry Head	POOH & Rig down VSI tools

Rig	Spud Date	Days from Spud	RT	Water Depth (SF-RT)
Stoneham 11	2010-02-15	89.0	6.30	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
3107.00	0.50^0	234.00^0	3011.08				
3112.00	0.30^0	151.00^0	3016.08				
3135.00	0.50^0	166.00^0	3039.08				
3147.00	1.00^0	200.00^0	3051.08				

Summary of Previous 24 Hours

Complete wiper trip to 3160m. POOH. Rig up VSI tools with 4 gun array & RIH to 3157m. Continue to log out of wellbore shooting the 4 gun array every 60m from 3157m to 600m. Successful VSP survey.

Operations Forecast (next 24 Hours)

Rig down VSI tools and complete the SCH logging operations. Turn Rig back to drilling operations.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type	Density	Viscosity	Fluid Loss	PV/YP	Chlorides
2000kg/m3 @ 2210.0mTVD	Gel Chem	1200kg/m3	64	to hole $0.0cm^3$	19.0/11.0	700mg/L

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2290.2m Next CSG(size/Depth)177@3160m
27	216	Reed R40ADH	3079	33.2	2.43	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
3118 to 3160	3.6	11.5	1.2	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
3118 to 3160	0.50-0.95	0.47-0.89	0.02	0.01	tr	tr	Bkgd Gas=0.78

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	**Est. Pore Pressure xxxxkg/m3**	**Depth xxxxTVD**

Formation Tops

Formations	**Prognosed**			**Actual**	
	Measured(m)	**TVD(m)**		**Measured(m)**	**TVD(m)**
Humber Arm Allochon (HAA)	0 0			15	15
Lower Head	100	100		25	25

Surface Csg Point	640	640		600	598
Shallow Bay	635	635		635	633
Fault Zone 1	1060	1060		1043	1038
Green Point	1151	1145		1230	1222
Zone 1 (pos Eagle Island)	1475 1	450		1529	1502
Zone 2 (pos Eagle Island)	1859 1	800		1681	1638.55
Zone 3 (pos Eagle Island)				1837	1778.3
Yellow Point	1948	1865		1923	1855
Goose Tickle	2473 2	375		2227	2136
Table Cove	2593	2495		2588	2492
Table Point	2623	2525		2619	2523
Aguathuna 2	753	2655		2770	2674
Catoche 2	793	2695		2823	2727
Boat Harbour	2953	2855		2934	2839
Watts Bight	3083	2985		3059	2963
Berry Head	3158	3060		3032	3128
Final Total Depth	3178	3080		3160	3064
Remarks **MWD Sensors Depths**: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Well Summary

Well Information

Operator:	**Nalcor Oil and Gas**
Well Name:	**Nalcor et al Seamus #1**
Location:	**Seamus-1**
Pool:	Parsons Pond
UWI:	Seamus-1
Field:	Western Newfoundland
Province:	Newfoundland
Country:	Canada
License Number:	03-103
Well Status:	**Gas Producer**

Surface Co-ordinates **Hole Type**: Deviated

Latitude: N 49 58 48.066 **Longitude:** W 57 42 00.007
N / S: 5536643.89 N
E / W: 449808.65 E

Bottom Hole Co-ordinates
Latitude: N 49 58 45.93 **Longitude:** W 57 41 37.39

N / S: 5536573.66 N
E / W: 450264.22 E

Elevations
Ground Elevation: 20.70
Kelly Bushing Elevation: 6.30

Total Depth	**Measured Depth**	**True Vertical Depth**
Total Depth Driller :	3,160.00	3,064.03
Total Depth (Logger) :	3,129.00	3,033.05

Well Summary
Drilling Contractor: Stoneham 11 **Spud Date:** Feb 15, 2010 @ 22:30
Rig Release Date: May 22, 2010 @ 12:00 **Total Depth Date:** May 14, 2010 @ 20:10

Casing Summary

Casing Type	Casing Size	Landed Depth	Hole Size
Conductor	540.0	23.00	644.0
Surface	340.0	601.00	444.5
Intermediate	244.0	2,292.50	311.0

Formation Tops

Kelly Bushing Elevation: 6.3 **Ground Elevation:** 20.00

***** All Depths measured from Kelly Bushing Elevation *****

Formation Member	Prognosis (TVD)	Sample Top (MD)	Sample Top (TVD)	Log Top (MD)	Log Top (TVD)	Subsea	Thickness
Lower Head	25.00	25.00	25.00			1.30	610.00
Shallow Bay	635.00	635.00	632.57	625.00	622.58	-596.28	595.00
Fault 1	1060.00	1043.00	1037.52	1045.00	1039.50	-1013.2	
Green Point	1145.00	1230.00	1221.99	1226.00	1218.08	-1191.7	301.00
Zone 1 Eagle Island	1450.00	1531.00	1503.64	1530.00	1502.75	-1476.4	150.00
Zone 2 Eagle Island	1800.00	1681.00	1638.56	1677.00	1634.95	-1608.6	156.00
Zone 3 Eagle Island		1837.00	1778.33	1837.00	1778.33	-1752.0	86.00
Yellow Point	1865.00	1923.00	1855.42	1923.00	1855.42	-1829.1	304.00
Goose (American)Tickle	2375.00	2227.00	2135.84	2223.00	2132.06	-2105.7	362.00
Table Cove	2495.00	2589.00	2493.12	2588.00	2492.12	-2465.8	30.00
Table Point	2525.00	2619.00	2523.12	2618.00	2522.12	-2495.8	151.00
Aguathuna	2655.00	2770.00	2674.09	2770.00	2674.09	-2647.7	53.00
Catoche	2695.00	2823.00	2727.08	2824.00	2728.08	-2701.7	111.00

Formation Member	Prognosis (TVD)	Sample Top (MD)	Sample Top (TVD)	Log Top (MD)	Log Top (TVD)	Subsea	Thickness
Boat Harbour	2855.00	2934.00	2838.06	2936.00	2840.06	-2813.6	125.00
Watts Bight	2985.00	3059.00	2963.05	3040.00	2944.05	-2917.5	69.00
Berry Head	3060.00	3128.00	3032.05			-3005.5	

FTD = 3160mMD

Formation Evaluations for Seamus-1

This summary is a descriptive analysis of all the different formations and formation tops that were observed in samples and or on LWD Logs. The log top reference is from wireline log tops. The wireline logging was conducted from 600m MD to 3160.0m MD. The thickness of each formation is a measured depth based on the sample top. The tops and formations are subject to change upon further evaluation, especially in the Carbonate Platform section of the Ordovician-Cambrian Western Newfoundland.

Formation: Lower Head
Series: Middle
Period: Ordovician
Boundary Type: unconformable
Stage: Caradocian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	25	25	1.30	610
Log Top			26.30	

Evaluation

The Lower Head consist mainly of massive sandstone and thin interbedded shale.

The Sandstone is salt & pepper, mainly light to medium grey, clear, trace dark gray, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional glauconite grains, 10 to 12% inferred porosity, no shows. (flysch derived)

The Shale is dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Conclusion

The Lower Head Sandstones have 10% to 14% intergranular porosity, but no hydrocarbon development.

****

Formation: Shallow Bay
Series: Early
Period: Ordovician
Boundary Type: unconformable
Stage: Arenigian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	635	632.57	-606.27	595
Log Top	625	622.58	-596.28	

Evaluation

The Shallow Bay is mainly thin bedded shale and limestone with minor dolomite beds from 635m to 967m. From 967m to 1230m the formation is mainly massive limestone beds with thin interbedded shales.

The Limestone from 635m to 967m is light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, trace chert, slightly argillaceous, tight, no shows.

The Shale from 635m to 967m is dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty, trace sandstone.

The Dolomite from 635m to 967m is off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional light brown limestone stringers, no visible porosity, no shows.

The Limestone from 967m to 1230m is buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, occasional coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows.

The Shale is dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

Conclusion

The Shallow Bay has some reservoir development in fractured limestones with Total Gas values at the following intervals: 720m = 4.18% TG. 808m = 4.2% TG. 895m = 6.6% TG. 1048m = 20.5% TG.

****

Formation: Fault 1 — Series: Period:

Fault Type: overthrust — Age: Ordovician

	Measured Depth	**True Vertical Depth**	**Subsea**	**Thickness**
Sample Top	1043	1037.52	-1011.22	
Log Top	1045	1039.5	-1013.20	

Evaluation

Fault 1 is located in the Shallow Bay formation.

Conclusion

This fault has abundant fractured limestones from 1043m to 1048m with Total Gas values up to 20.8%.

****

Formation: Green Point — **Series**: Early **Period**: Ordovician

Boundary Type: angular unconformable — **Stage**: Tremadocian

	Measured Depth	**True Vertical Depth**	**Subsea**	**Thickness**
Sample Top	1230	1221.99	-1195.69	301

Log Top	1226	1218.08	-1191.78

Evaluation

The Green Point is this location is mainly massive limestone with thin interbedded shale.

The Limestone is mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers with abundant quartz eyes, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

The Shale is black, dark gray to gray, green gray, hard to firm, brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

Conclusion

The Green Point has no reservoir development and very little hydrocarbon potential.

****

Formation: Zone 1 Eagle Island **Series:** Middle
Period: Ordovician
Boundary Type: angular unconformable **Stage**: Llanvirnian

	Measured Depth	**True Vertical Depth**	**Subsea**	**Thickness**
Sample Top	1531	1503.64	-1477.34	150
Log Top	1530	1502.75	-1476.45	

Evaluation

Zone 1 Eagle Island (equivalent) is mainly interbedded sandstone, limestone and shale.

The Sandstone is off white, light gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, frequent carbonaceous specks, 8 to 12% inferred porosity, no shows.

The Limestone is buff, off white, light to dark brown, dark gray, packstone, crystalline to microcrystalline, frequent quartz eyes, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows.

The Shale is dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, common fine disseminated & nodular pyrite.

Conclusion

The Zone 1 Eagle Island Sandstone has limited reservoir development in this well and no hydrocarbon development.

****

Formation: Zone 2 Eagle Island **Series**: Middle

Boundary Type: angular unconformable

Period: Ordovician
Stage: Llanvirnian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	1681	1638.56	-1612.26	156
Log Top	1677	1634.95	-1608.65	

Evaluation

Zone 2 Eagle Island (equivalent) is mainly interbedded sandstone, limestone and shale.

The Sandstone is medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, occasional grains salt & pepper, fine to medium grained, medium to poorly sorted, subangular to subround, mainly quartz +feldspar, + lithic fragments +glauconite + green seritized serpentine (typical Eagle Island Formation), 8 to 12% inferred porosity, no shows.

The Limestone is buff, dark to medium gray, light brown, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

The Shale is dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

Conclusion

The Zone 2 Eagle Island Sandstone has poor reservoir development in this well and very limited hydrocarbon potential, with Total Gas up to 1%.

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Formation: Zone 3 Eagle Island

Series: Middle
Period: Ordovician

Boundary Type: angular unconformable

Stage: Llanvirnian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	1837	1778.33	-1752.03	86
Log Top	1837	1778.33	-1752.03	

Evaluation

Zone 3 Eagle Island (equivalent) is mainly interbedded sandstone, limestone and shale.

The Sandstone is off white, clear, light gray, fine to medium grained, occasional coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, occasional carbonaceous specks & bitumen staining, mainly 10 to 14% intergranular porosity with minor intervals up to 16% intergranular porosity, no shows.

The Limestone is dark gray, light brown, buff, mudstone, microcrystalline to crystalline, hard to firm, brittle, very dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

The Shale is black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite.

Conclusion

The Zone 3 Eagle Island Sandstone has poor to fair reservoir development and very limited hydrocarbon potential, with Total Gas up to 5.7% at 1884m

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Formation: Yellow Point

Series: Early
Period: Ordovician
Stage: Tremadocian

Boundary Type: unconformable

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	1923	1855.42	-1829.12	304
Log Top	1923	1855.42	-1829.12	

Evaluation

The Yellow Point is mainly shale with interbedded limestone and sandstone.

The Shale is black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickensides.

The Limestone is buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite. Fractures with TG=64.89% at 2138.4m and TG=74.0% @2142.8m.

The Sandstone is salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

Conclusion

The Yellow Point formation has a high hydrocarbon zone (mainly C1 gas) from 2138m to 2146m. The Total Gas is from 64.9% to 70.7%. This zone will be tested at a later date.

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Formation: Goose (American)Tickle

Series: Middle
Period: Ordovician
Stage: Llandeilan

Boundary Type: unconformable

	Measured	True Vertical	Subsea	Thickness

	Depth	Depth		
Sample Top	2227	2135.84	-2109.54	362
Log Top	2223	2132.06	-2105.76	

Evaluation

The Goose (American) Tickle is mainly shale and sandstone, with very minor thin limestone beds

The Shale is medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.

The Sandstone is light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

The Limestone is light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white + clear crystalline calcite, tight, no shows.

Conclusion

The Goose (American) Tickle sandstone has poor to fair reservoir development with limited hydrocarbon potential and Total Gas up to 2.2% @ 2290m.

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Formation: Table Cove

Series: Middle
Period: Ordovician
Stage: Llanvirnian

Boundary Type: unconformable

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2589	2493.12	-2466.82	30
Log Top	2588	2492.12	-2465.82	

Evaluation

The Table Cove is mainly Limestone with thin interbedded shale.

The Limestone is white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcite. The highly fractured limestones have Total Gas values from 44.8% to 19.3% at 2600m to 2614m. This is mainly C1 gas.

The Shale is dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

The Shale is dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

Conclusion

The top of the Table Cove is highly fractured, producing total gas values from 44.8% to 19.3% at 2600m to 2614m. This interval was logged with MDT, but no pressures or flow rates were obtained.

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Formation: Table Point
Boundary Type: unconformable
Series: Middle
Period: Ordovician
Stage: Llanvirnian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2619	2523.12	-2496.82	151
Log Top	2618	2522.12	-2495.82	

Evaluation

The Table Point is mainly a massive limestone.

The Limestone is light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

Conclusion

The Table Point has no reservoir development and no hydrocarbon potential.

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Formation: Aguathuna
Boundary Type: unconformable
Series: Early
Period: Ordovician
Stage: Arenigian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2770	2674.09	-2647.79	53
Log Top	2770	2674.09	-2647.79	

Evaluation

The Aguathuna is mainly a massive dolomite with thin interbedded limestone and shale.

The Dolomite is dark to light brown, off white, microcrystalline to fine crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, stylolitic, trace bitumen staining, poor intercrystalline porosity, trace light brown chert, no shows.

The Limestone is white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, in part brittle, stylolitic, argillaceous, no visible porosity, no shows.

The Shale is light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous.

Conclusion

The Aguathuna in this well has no reservoir development and no hydrocarbon potential. Total Gas throughout this formation is less than 0.5%.

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Formation: Catoche

Series: Early
Period: Ordovician
Stage: Arenigian

Boundary Type: unconformable

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2823	2727.08	-2700.78	111
Log Top	2824	2728.08	-2701.78	

Evaluation

The Catoche is mainly massive dolomite with thin interbeds of limestone.

The Dolomite is medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows.

The Limestone is light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, trace clear calcite veining, grading dolomitic, no visible porosity, no shows.

Conclusion

The Catoche in this well has no reservoir development and no hydrocarbon potential. Total Gas throughout this formation is less than 0.5%.

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Formation: Boat Harbour

Series: Early
Period: Ordovician
Stage: Tremadocian

Boundary Type: disconformable

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2934	2838.06	-2811.76	125
Log Top	2936	2840.06	-2813.76	

Evaluation

The Boat Harbour is mainly massive limestone with thin interbeds of dolomite at the base of the formation.

The Limestone is medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

The Dolomite is buff, cream, microcrystalline to fine crystalline, occasional coarse crystalline, massive, occasional sucrosic texture, trace evidence of recrystallization, hard to firm cementation, brittle, platy, occasional fine disseminated pyrite, common bitumen staining, poor intercrystalline porosity, no shows.

Conclusion

The Boat Harbour in this well has no reservoir development and no hydrocarbon potential. Total Gas throughout this formation is less than 0.5%.

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Formation: Watts Bight

Series: Early
Period: Ordovician
Stage: Tremadocian

Boundary Type: conformable

	Measured Depth	**True Vertical Depth**	**Subsea**	**Thickness**
Sample Top	3059	2963.05	-2936.75	69
Log Top	3040	2944.05	-2917.75	

Evaluation

The Watts Bight is mainly massive dolomite with minor limestone beds.

The Dolomite is mottled light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, occasional evidence of recrystallization, minor veining with coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to occasional fair intercrystalline porosity, no shows.

The Limestone is medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

Conclusion

The Watts Bight in this well has very limited reservoir development and minor hydrocarbon potential. Total Gas throughout this formation is from 0.5% to 1.5%.

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Formation: Berry Head

Series: Late
Period: Cambrian
Stage:

Boundary Type: conformable

	Measured Depth	**True Vertical Depth**	**Subsea**	**Thickness**
Sample Top	3128	3032.05	-3005.75	
Log Top			26.30	

Evaluation

The Berry Head is mainly a massive dolomite with thin stringers of chert.

The Dolomite is off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, occasional sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, abundant brittle, platy, occasional friable, frequent fine disseminated pyrite, stylolitic, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

The Chert is light brown, pale white, very hard, conchoidal.

Conclusion

The Berry Head in this well has very limited reservoir development and minor hydrocarbon potential. Total Gas throughout this formation is from 0.5% to 1.0%.

Total Final Depth = 3160mMD: 3064mTVD

Sample Descriptions for Seamus-1

20 to 25 (5.00)

100% Limestone
off white, buff, crypto crystalline, hard, brittle, tight, no shows.

Formation: Lower Head TVD: 25m MD: 25m

25 to 30 (5.00)

60% Sandstone
clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows

20% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy.

20% Limestone
off white, buff, crypto crystalline, hard, brittle, tight, no shows.

30 to 35 (5.00)

50% Sandstone
clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

50% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy.

35 to 50 (15.00)

50% Sandstone
clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

50% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy.

50 to 55 (5.00)

70% Sandstone

clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

30% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy.

55 to 60 (5.00)

80% Sandstone
clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, trace light brown limestone fragments, 8 to 12% inferred porosity, no shows.

20% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy.

60 to 65 (5.00)

60% Sandstone
clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

40% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy.

65 to 75 (10.00)

80% Sandstone
clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

20% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy.

75 to 100 (25.00)

70% Sandstone
clear, off white, light to medium grey, salt & pepper, fine to medium grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

30% Shale

medium to dark grey, grey green, firm to hard, in part brittle, platy, non calcareous.

100 to 120 (20.00)

80% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

20% Shale
medium to dark grey, grey green, firm to hard, in part brittle, blocky to platy.

120 to 130 (10.00)

70% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard, indurated, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite and light brown limestone fragments, 8 to 12% inferred porosity, no shows.

30% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy, non calcareous.

130 to 135 (5.00)

70% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard, indurated, frequent orange feldspar, and dark lithic fragments, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite 8 to 12% inferred porosity, no shows.

30% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy, non calcareous.

135 to 150 (15.00)

80% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard to firm, moderate indurated, abundant orange feldspar, and dark lithic fragments, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

20% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy, non calcareous.

150 to 165 (15.00)

90% Sandstone
salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly quartz, hard to firm, moderate indurated, abundant orange feldspar, and dark lithic fragments, consolidated with calcareous cement, slightly siliceous, frequent bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

10% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy to blocky, silty, non calcareous.

165 to 175 (10.00)

80% Sandstone
salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, frequent orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, frequent bronze mica, trace green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

20% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy to blocky, silty, non calcareous.

175 to 180 (5.00)

75% Sandstone
salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, frequent orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, frequent bronze mica, frequent green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

20% Shale
medium to dark grey, grey green, firm to hard, in part brittle, platy to blocky, silty, non calcareous.

5% Limestone
light brown, massive, mudstone, hard, in part brittle, crypto crystalline, tight, no shows.

180 to 185 (5.00)

80% Sandstone
salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, frequent orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, frequent bronze mica, frequent green sericitized serpentine, trace fine disseminated pyrite, 8 to 12% inferred porosity, no shows.

20% Shale

medium to dark grey, grey green, firm to hard, in part brittle, platy to blocky, silty, non calcareous.

185 to 200 (15.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, trace orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows.

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, silty, occasional fine grained disseminated pyrite, non calcareous.

200 to 210 (10.00)

70% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, trace orange feldspar, abundant dark lithic fragments, conglomeratic, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows.

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, silty, micro micaceous non calcareous.

210 to 225 (15.00)

80% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, occasional orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows.

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, silty, micro micaceous non calcareous.

225 to 230 (5.00)

70% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, occasional orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows.

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, silty, micro micaceous non calcareous.

230 to 250 (20.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.

250 to 255 (5.00)

80% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, abundant orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, occasional light brown limestone fragments, 8 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks, trace slickenside.

255 to 275 (20.00)

80% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.

275 to 285 (10.00)

80% Sandstone
salt & pepper, light to medium grey, clear, off white, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, abundant orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized

serpentine, occasional light brown limestone fragments, 10 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.

285 to 320 (35.00)

80% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.

320 to 345 (25.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

345 to 370 (25.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

370 to 380 (10.00)

80% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard,

moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

380 to 390 (10.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

390 to 395 (5.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, frequent light gray with increase orange feldspar, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

395 to 405 (10.00)

60% Sandstone
salt & pepper, dark to medium grey, clear, frequent light gray with increase orange feldspar, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived)

40% Shale
dark to medium grey, grey green, reddish brown. firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

405 to 435 (30.00)

70% Sandstone
salt & pepper, light to medium grey, occasional dark gray, clear, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments & orange feldspar, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

435 to 455 (20.00)

80% Sandstone
salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

455 to 470 (15.00)

80% Sandstone
salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

470 to 485 (15.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

485 to 495 (10.00)

80% Sandstone
salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

495 to 500 (5.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

500 to 515 (15.00)

80% Sandstone
salt & pepper, light to medium grey, frequent dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, trace loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, occasional dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 8 to 12% inferred porosity, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

515 to 545 (30.00)

80% Sandstone
salt & pepper, mainly light to medium grey, clear, trace dark gray, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional glauconite grains, 10 to 12% inferred porosity, no shows. (flysch derived)

20% Shale

dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

545 to 565 (20.00)

90% Sandstone
salt & pepper, mainly light to medium grey, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, weak indurated, trace dark lithic fragments, weak consolidated with calcareous cement, argillaceous, occasional bronze mica, minor quartz overgrowths, trace glauconite grains, 10 to 14% inferred porosity, no shows. (flysch derived)

10% Shale
dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

565 to 585 (20.00)

90% Sandstone
clear, light to medium gray, salt & pepper, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, weak indurated, trace dark lithic fragments, weak consolidated with calcareous cement, argillaceous, occasional bronze mica, minor quartz overgrowths, trace glauconite grains, 10 to 14% inferred porosity, no shows. (flysch derived)

10% Shale
dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

585 to 600 (15.00)

70% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

30% Shale
dark to medium grey, grey green, frequent reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.

600 to 610 (10.00)

50% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived)

50% Shale
dark to medium grey, grey green, abundant reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.

610 to 615 (5.00)

80% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived)

20% Shale
dark to medium grey, grey green, frequent reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.

615 to 620 (5.00)

90% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived)

10% Shale
dark to medium grey, grey green, frequent reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.

620 to 625 (5.00)

40% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived)

30% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

30% Shale
green gray, red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks

625 to 630 (5.00)

70% Shale
green gray, dark gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

20% Sandstone
salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows. (flysch derived)

10% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

Formation: Shallow Bay TVD: 632.57m MD: 635m

630 to 645 (15.00)

80% Shale
green gray, dark gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

20% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, in part white dolomite slightly sucrosic, tight, no shows.

645 to 665 (20.00)

80% Shale
green gray, dark gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

10% Dolomite
off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional light brown limestone stringers, no visible porosity, no shows.

10% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

665 to 675 (10.00)

70% Shale

green gray, dark gray, occasional red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

30% Dolomite
off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional light brown limestone stringers, no visible porosity, no shows.

675 to 680 (5.00)

50% Shale
green gray, dark gray, occasional red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

25% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

25% Dolomite
off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional argillaceous, no visible porosity, no shows.

680 to 685 (5.00)

40% Shale
green gray, dark gray, occasional red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

40% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

20% Dolomite
off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional argillaceous, no visible porosity, no shows.

685 to 690 (5.00)

60% Shale
green gray, dark gray, occasional red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

30% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

10% Dolomite

off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional argillaceous, no visible porosity, no shows.

690 to 695 (5.00)

70% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks & fine disseminated pyrite.

20% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, trace bitumen staining, tight, no shows.

10% Dolomite
off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional argillaceous, no visible porosity, no shows.

695 to 700 (5.00)

40% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks & fine disseminated pyrite.

40% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, occasional clear calcite stringers, trace bitumen staining, slightly argillaceous, tight, no shows.

20% Dolomite
off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional argillaceous, no visible porosity, no shows.

700 to 715 (15.00)

60% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty.

30% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, occasional clear calcite stringers, trace bitumen staining, slightly argillaceous, tight, no shows.

10% Dolomite
off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional argillaceous, no visible porosity, no shows.

715 to 725 (10.00)

80% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty.

20% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, frequent fractures with clear calcite stringers giving increase gas values up to 4.18% total gas, trace bitumen staining, slightly argillaceous, tight, no shows.

725 to 730 (5.00)

80% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty.

20% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

730 to 735 (5.00)

75% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, frequent slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty.

20% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

5% Chert
light gray brown, very hard, brittle, conchoidal break,

735 to 740 (5.00)

80% Shale
green gray, dark gray, occasional red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks, occasional fine disseminated pyrite.

15% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, frequent glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

5% Chert
light gray brown, very hard, brittle, conchoidal break,

740 to 745 (5.00)

90% Shale
green gray, dark gray, black gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks, occasional fine disseminated pyrite.

10% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

745 to 750 (5.00)

80% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

20% Shale
green gray, dark gray, black gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks, occasional fine disseminated pyrite.

750 to 760 (10.00)

50% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty.

50% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

760 to 770 (10.00)

60% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

40% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty.

770 to 780 (10.00)

70% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

30% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty.

780 to 795 (15.00)

60% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

40% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty.

795 to 800 (5.00)

80% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

20% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty.

800 to 810 (10.00)

60% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, fractures in crystalline calcite with total gas up to 4.2%, tight, no shows.

40% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty.

810 to 815 (5.00)

80% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, trace chert, slightly argillaceous, tight, no shows.

20% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty, trace sandstone.

815 to 820 (5.00)

70% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, common chert, slightly argillaceous, tight, no shows.

30% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty

820 to 825 (5.00)

50% Limestone
light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, common chert, slightly argillaceous, tight, no shows.

50% Shale
dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty

825 to 830 (5.00)

60% Shale
gray to dark gray, green gray, firm to hard, occasionally brittle, platy to blocky, elongated, gritty, occasional slickenside, slightly calcareous, trace carbonaceous material, trace pyrite.

40% Limestone
light brown, off white, cream, mudstone, micro crystalline, firm to hard, in part brittle, trace glauconite, trace bitumen staining, occasional chert specks, argillaceous, no shows.

830 to 840 (10.00)

80% Shale
dark gray to gray, occasional black gray firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace carbonaceous specks, trace pyrite.

20% Limestone

light brown, off white, cream, mudstone, micro crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, no shows.

840 to 845 (5.00)

60% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace carbonaceous specks, trace pyrite.

40% Limestone
light brown, off white, cream, mudstone, micro crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, occasional chert specks, argillaceous, no shows.

845 to 850 (5.00)

50% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace carbonaceous specks, trace pyrite.

50% Limestone
light brown, off white, cream, mudstone, micro crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, no shows.

850 to 855 (5.00)

90% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, no shows.

10% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

855 to 865 (10.00)

80% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, no shows.

20% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

865 to 875 (10.00)

60% Limestone

off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, trace calcite, common bitumen staining, argillaceous, no shows.

40% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

875 to 880 (5.00)

80% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, trace calcite, common bitumen staining, argillaceous, no shows.

20% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

880 to 885 (5.00)

70% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, trace calcite, common bitumen staining, argillaceous, no shows.

30% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

885 to 890 (5.00)

60% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, trace calcite, common bitumen staining, argillaceous, no shows.

40% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

890 to 895 (5.00)

70% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, trace calcite, common bitumen staining, argillaceous, no shows.

30% Shale
dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

895 to 899.6 (4.60)

70% Shale
dark gray to gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

30% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, fractures with frequent clear crystalline calcite giving total gas values up to 6.06%, common bitumen staining, argillaceous, no shows. POOH for new Bit & BHA.

899.6 to 910 (10.40)

60% Shale
dark gray to gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

40% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, no shows.

910 to 915 (5.00)

90% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.

10% Shale
dark gray to gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

915 to 930 (15.00)

90% Shale
green gray, dark gray to gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

10% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.

930 to 935 (5.00)

70% Shale
green gray, dark gray to medium gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

30% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.

935 to 940 (5.00)

70% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, frequent stylolites, fractures with frequent clear crystalline calcite giving total gas values up to 6.06%, common bitumen staining, argillaceous, no shows.

30% Shale
green gray, dark gray to medium gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

940 to 950 (10.00)

70% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.

30% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

950 to 955 (5.00)

80% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

20% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.

955 to 965 (10.00)

90% Limestone

off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, frequent fine disseminated pyrite, tight, no shows.

10% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

965 to 985 (20.00)

90% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to soft, in part brittle, trace glauconite, abundant crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite, tight, no shows.

10% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

985 to 995 (10.00)

90% Limestone
off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to soft, in part brittle, trace glauconite, abundant crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & occasional crystalline pyrite, tight, no shows.

10% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

995 to 1010 (15.00)

90% Limestone
light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, minor sandy, trace glauconite, abundant clear crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & minor slickenside, occasional crystalline pyrite, tight, no shows.

10% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

1010 to 1015 (5.00)

88% Limestone
light -m brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, minor sandy, trace glauconite, abundant clear crystalline calcite

with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & minor slickenside, occasional crystalline pyrite, tight, no shows.

10% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

2% Chert
light gray brown, very hard, brittle, conchoidal break,

1015 to 1025 (10.00)

70% Limestone
light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, abundant clear crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & minor slickenside, tight, no shows.

28% Shale
dark gray to gray, green gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

2% Chert
light gray brown, very hard, brittle, conchoidal break.

1025 to 1030 (5.00)

80% Limestone
light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, increase fractures with abundant clear crystalline calcite, frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & abundant slickenside, tight, no shows.

19% Shale
dark gray to gray, green gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, frequent chert, trace carbonaceous specks.

1% Chert
light gray brown, very hard, brittle, conchoidal break.

1030 to 1035 (5.00)

80% Limestone
light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, increase fractures with abundant clear crystalline calcite, frequent bitumen

staining, argillaceous, common fine disseminated pyrite & abundant slickenside, tight, no shows.

19% Shale
dark gray to gray, green gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, frequent chert, trace carbonaceous specks.

1% Chert
light gray brown, very hard, brittle, conchoidal break.

Formation: Fault 1 TVD: 1037.52m MD: 1043m

1035 to 1045 (10.00)

80% Limestone
light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, increase fractures with abundant clear crystalline calcite, frequent bitumen staining, argillaceous, common fine disseminated pyrite & abundant slickenside, tight, no shows.

19% Shale
dark gray to gray, green gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, frequent chert, trace carbonaceous specks.

1% Chert
light gray brown, very hard, brittle, conchoidal break.

1045 to 1060 (15.00)

90% Limestone
light to medium brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, firm to hard, in part brittle, trace coarse grained salt & pepper sandstone, occasional fractures with frequent clear crystalline calcite, giving up to 20.5% total gas at 1048m, common bitumen staining, argillaceous, minor fine disseminated pyrite & moderate slickenside, tight, no shows.

8% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, frequent chert, trace carbonaceous specks.

2% Chert
light gray brown, very hard, brittle, conchoidal break.

1060 to 1065 (5.00)

90% Limestone
light to medium brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, firm to hard, in part brittle, trace coarse grained, occasional fractures with frequent clear crystalline calcite, trace bitumen staining, argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows.

9% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, frequent chert, trace carbonaceous specks.

1% Chert
light gray brown, very hard, brittle, conchoidal break.

1065 to 1070 (5.00)

90% Limestone
light to dark brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, hard to firm, frequent brittle, rare fractures with occasional clear crystalline calcite, trace bitumen staining, argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows.

10% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, rare chert, trace carbonaceous specks.

1070 to 1075 (5.00)

90% Limestone
light to dark brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, hard to firm, frequent brittle, rare fractures with occasional clear crystalline calcite, trace bitumen staining, argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows.

9% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, frequent chert, trace carbonaceous specks.

1% Chert
light gray brown, very hard, brittle, conchoidal break.

1075 to 1076 (1.00)

90% Limestone
light to dark brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, hard to firm, frequent brittle, rare fractures with occasional clear crystalline calcite, trace bitumen staining, argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows.

9% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, minor chert, trace carbonaceous specks.

1% Chert
light gray brown, very hard, brittle, conchoidal break.

1076 to 1090 (14.00)

95% Limestone
light to dark brown, buff, off white to cream, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, in part dolomitic, tight, no shows.

5% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

1090 to 1095 (5.00)

95% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, in part dolomitic, tight, no shows.

5% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

1095 to 1100 (5.00)

95% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, minor fractures with occasional clear crystalline calcite giving TG=1.1% at 1098.7m, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, in part dolomitic, tight, no shows.

5% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

1100 to 1105 (5.00)

95% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, none part dolomitic, slightly sucrosic,

minor fractures with occasional clear crystalline calcite giving TG=3.7% at 1104m, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, tight, no shows.

5% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

1105 to 1115 (10.00)

95% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, tight, no shows.

5% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

1115 to 1120 (5.00)

95% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, none part dolomitic, slightly sucrosic, minor fractures with occasional clear crystalline calcite giving TG=2.1% at 1116m, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, tight, no shows.

5% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

1120 to 1145 (25.00)

95% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows.

5% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

1145 to 1150 (5.00)

90% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows.

10% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

1150 to 1185 (35.00)

90% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, occasional coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows.

10% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

1185 to 1190 (5.00)

85% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

15% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

1190 to 1200 (10.00)

80% Limestone
buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

20% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

1200 to 1225 (25.00)

80% Limestone
buff, cream to off white, light to dark brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

20% Shale
dark gray to gray, green gray, firm to hard, brittle, blocky to platy, waxy, slightly calcareous, trace light brown chert, trace carbonaceous specks.

1225 to 1230 (5.00)

80% Limestone
buff, cream to off white, light to dark brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, frequent brittle, in part dolomitic, trace fractures with rare clear crystalline calcite, minor bitumen staining, frequent fine disseminated pyrite, tight, no shows.

20% Shale
black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, slightly waxy, slightly to none calcareous, trace carbonaceous specks.

Formation: Green Point TVD: 1221.99m MD: 1230m

1230 to 1265 (35.00)

75% Limestone
mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, occasional brittle, in part dolomitic, frequent fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

25% Shale
black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous, trace carbonaceous specks.

1265 to 1280 (15.00)

80% Limestone
mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, occasional brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

20% Shale
black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous, trace carbonaceous specks.

1280 to 1285 (5.00)

80% Limestone
mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, occasional brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. (Torque increase & ROP decrease)

20% Shale
black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous, trace carbonaceous specks.

1285 to 1295 (10.00)

80% Limestone
mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. (Torque increase & ROP decrease). POOH for Tri - Cone Bit.

20% Shale
black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous & siliceous, trace carbonaceous specks.

1295 to 1305 (10.00)

80% Limestone
mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

20% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty, slightly calcareous & siliceous, trace carbonaceous specks.

1305 to 1315 (10.00)

80% Limestone
mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, sandy with abundant quartz eyes, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

20% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1315 to 1320 (5.00)

90% Limestone
mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, sandy with abundant quartz eyes, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

8% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

2% Sandstone
off white, light gray, clear, medium to coarse grained, moderate sorted, subangular to angular, consolidated with calcareous cement, frequent bitumen staining, 10 to 12% inferred porosity, no shows.

1320 to 1340 (20.00)

90% Limestone
mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers with abundant quartz eyes, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

10% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks, occasional slickenside.

1340 to 1345 (5.00)

80% Limestone
mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

20% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks, occasional slickenside.

1345 to 1355 (10.00)

50% Limestone
mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

30% Sandstone
salt & pepper, off white, clear, clear, fine to medium grained, occasional coarse grained, moderate sorted, subangular to angular, consolidated with calcareous cement, minor fine disseminated pyrite, frequent bitumen staining, 10 to 12% inferred porosity, no shows.

20% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks, occasional slickenside.

1355 to 1380 (25.00)

90% Limestone
mottled gray, off white, dark gray, light brown, packstone, microcrystalline to crystalline, abundant siliceous matrix, occasional quartz eyes, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

10% Shale

black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1380 to 1385 (5.00)

90% Limestone
mottled gray, off white, dark gray, light brown, packstone, microcrystalline to crystalline, abundant siliceous matrix, occasional quartz eyes, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, occasional sandstone stringers with total gas up to 1.6%, tight, no shows.

10% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1385 to 1386 (1.00)

90% Limestone
mottled gray, off white, dark gray, light brown, packstone, microcrystalline to crystalline, abundant siliceous matrix, occasional quartz eyes, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

10% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1386 to 1390 (4.00)

80% Limestone
mottled gray, off white, dark gray, light brown, packstone, microcrystalline to crystalline, abundant siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, frequent fine disseminated pyrite, occasional salt & pepper sandstone stringers, tight, no shows.

20% Shale
black, dark gray to gray, green gray, trace red brown, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1390 to 1415 (25.00)

90% Limestone
mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

10% Shale
black, dark gray to gray, green gray, trace red brown, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1415 to 1420 (5.00)

90% Limestone
mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, frequent fractures with abundant clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

8% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

2% Chert
light gray brown, very hard, brittle, conchoidal break.

1420 to 1425 (5.00)

87% Limestone
mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, occasional fractures with frequent clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

8% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

5% Chert
light gray brown, very hard, brittle, conchoidal break. (Spot sample)

1425 to 1430 (5.00)

85% Limestone
buff, off white, cream, light brown, mottled gray, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

12% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

3% Chert
light gray brown, very hard, brittle, conchoidal break.

1430 to 1435 (5.00)

85% Limestone
buff, off white, cream, light brown, mottled gray, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite & nodule pyrite, tight, no shows.

13% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

2% Chert
light gray brown, very hard, brittle, conchoidal break.

1435 to 1440 (5.00)

85% Limestone
buff, off white, cream, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, occasional siliceous hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, minor fine disseminated pyrite, tight, no shows.

14% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1% Chert
light gray brown, very hard, brittle, conchoidal break.

1440 to 1445 (5.00)

80% Limestone
buff, off white, cream, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, occasional siliceous hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, minor fine disseminated pyrite, tight, no shows.

19% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1% Chert
light gray brown, very hard, brittle, conchoidal break.

1445 to 1450 (5.00)

80% Limestone
buff, off white, cream, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, occasional siliceous hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, minor fine disseminated pyrite, tight, no shows.

15% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

5% Chert
light gray brown, very hard, brittle, conchoidal break.

1450 to 1475 (25.00)

80% Limestone
light to dark brown, buff, off white, cream, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite & nodular pyrite, tight, no shows.

15% Shale
black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

5% Chert
light gray brown, clear, very hard, brittle, conchoidal break.

1475 to 1485 (10.00)

73% Limestone
light to dark brown, buff, off white, cream, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite & nodular pyrite, tight, no shows.

25% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks in part waxy.

2% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

1485 to 1500 (15.00)

80% Limestone
buff, cream, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, trace light brown chert, tight, no shows.

20% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks in part waxy.

1500 to 1505 (5.00)

60% Limestone
buff, light to dark brown, off white, cream, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

20% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

20% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks in part waxy.

1505 to 1510 (5.00)

70% Limestone
buff, light to dark brown, off white, cream, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

20% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks in part waxy.

10% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

1510 to 1525 (15.00)

90% Limestone
buff, light to dark brown, off white, cream, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

9% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

1525 to 1530 (5.00)

80% Limestone
dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

10% Sandstone
off white, salt & pepper, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with calcareous cement, trace disseminated pyrite, 8 to 12% inferred porosity, no shows.

9% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

Formation: Zone 1 Eagle Island TVD: 1503.64m MD: 1531m

1530 to 1540 (10.00)

75% Limestone
dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

15% Sandstone
off white, salt & pepper, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, 8 to 12% inferred porosity, no shows.

9% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

1540 to 1545 (5.00)

70% Limestone
dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

20% Sandstone
off white, light gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, frequent carbonaceous specks, 8 to 12% inferred porosity, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1545 to 1550 (5.00)

60% Limestone
dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows.

30% Sandstone
off white, light gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, frequent carbonaceous specks, 8 to 12% inferred porosity, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

1550 to 1552 (2.00)

50% Limestone
dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows.(Bottom up Sample: POOH for new Bit)

25% Sandstone
off white, light gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, frequent carbonaceous specks, 8 to 12% inferred porosity, no shows.

25% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks, occasional slickenside.

1552 to 1555 (3.00)

50% Limestone
dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

30% Sandstone
off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

18% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, occasional slickenside.

2% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

1555 to 1565 (10.00)

60% Limestone
dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

20% Sandstone
off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard,

indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

19% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, occasional slickenside.

1% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

1565 to 1570 (5.00)

50% Limestone
dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows.

40% Sandstone
off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, occasional slickenside.

1570 to 1590 (20.00)

70% Limestone
buff, off white, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows.

20% Sandstone
off white, light to medium gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, occasional slickenside.

1590 to 1605 (15.00)

65% Limestone
buff, off white, light to dark brown, dark gray, packstone, crystalline to microcrystalline, frequent quartz eyes, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with

occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows.

25% Sandstone
off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks.

1605 to 1615 (10.00)

70% Limestone
buff, off white, mottled gray, light to dark brown, dark gray, packstone, crystalline to microcrystalline, frequent quartz eyes, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, minor light brown chert grains, tight, no shows.

20% Sandstone
off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, common fine disseminated & nodular pyrite.

1615 to 1625 (10.00)

80% Limestone
dark gray, buff, light to dark brown, mottled gray, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

10% Sandstone
off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, common fine disseminated & nodular pyrite.

1625 to 1635 (10.00)

90% Limestone
buff, off white, dark gray, mottled gray, mudstone, microcrystalline to crystalline, siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1635 to 1660 (25.00)

90% Limestone
buff, off white, dark gray, light brown, mudstone, microcrystalline to cryptocrystalline, occasional crystalline, minor siliceous matrix, firm to hard, occasional chalky, in part dolomitic, minor fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

10% Shale
dark gray to gray, black, green gray, hard to firm, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1660 to 1665 (5.00)

75% Limestone
buff, off white, dark gray, light brown, mudstone, microcrystalline to cryptocrystalline, occasional crystalline, minor siliceous matrix, firm to hard, occasional chalky, in part dolomitic, minor fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

25% Shale
green gray, dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1665 to 1670 (5.00)

90% Limestone
dark to medium gray, buff, off white, packstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

10% Shale
green gray, dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1670 to 1675 (5.00)

80% Limestone
dark to medium gray, buff, off white, packstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

20% Shale
green gray, dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

Formation: Zone 2 Eagle Island TVD: 1638.56m MD: 1681m

1675 to 1685 (10.00)

60% Limestone
dark to medium gray, buff, off white, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

20% Sandstone
medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

20% Shale
green gray, dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1685 to 1701 (16.00)

50% Limestone
dark to medium gray, buff, gray brown, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

30% Sandstone
medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

20% Shale
dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1701 to 1710 (9.00)

60% Limestone
dark to medium gray, buff, light brown, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

20% Sandstone

Predominately medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, occasional grains salt & pepper, fine to medium grained, medium to poorly sorted, subangular to subround, mainly quartz +feldspar, + lithic fragments +glauconite + green sericitized serpentine (typical Eagle Island Formation), 8 to 12% inferred porosity, no shows.

19% Shale
dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

1710 to 1715 (5.00)

80% Limestone
buff, dark to medium gray, light brown, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

10% Sandstone
Predominately medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, occasional grains salt & pepper, fine to medium grained, medium to poorly sorted, subangular to subround, mainly quartz +feldspar, + lithic fragments +glauconite + green seritized serpentine (typical Eagle Island Formation), 8 to 12% inferred porosity, no shows.

10% Shale
dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1715 to 1720 (5.00)

75% Limestone
buff, dark to medium gray, light brown, mudstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

15% Sandstone
Predominately medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, occasional grains salt & pepper, fine to medium grained, medium to poorly sorted, subangular to subround, mainly quartz +feldspar, + lithic fragments +glauconite + green seritized serpentine (typical Eagle Island Formation), 8 to 12% inferred porosity, no shows.

10% Shale
dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1720 to 1750 (30.00)

90% Limestone
buff, dark to medium gray, light brown, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

10% Shale
dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1750 to 1755 (5.00)

80% Limestone
buff, dark to medium gray, light brown, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, trace light brown chert, tight, no shows.

20% Shale
dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

1755 to 1775 (20.00)

80% Limestone
medium to light gray, buff, light brown, dark gray, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

20% Shale
dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

1775 to 1785 (10.00)

70% Limestone
medium to light gray, buff, light brown, dark gray, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

30% Shale
medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

1785 to 1805 (20.00)

90% Limestone

buff, light brown, medium to light gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

10% Shale
medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

1805 to 1835 (30.00)

80% Limestone
buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

20% Shale
medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

Formation: Zone 3 Eagle Island TVD: 1778.33m MD: 1837m

1835 to 1840 (5.00)

70% Limestone
buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, occasional stylolites, tight, no shows.

15% Sandstone
off white, clear, light gray, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks, 8 to 14% inferred porosity, no shows.

15% Shale
medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1840 to 1845 (5.00)

50% Limestone
buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, occasional stylolites, tight, no shows.

40% Sandstone
off white, clear, light gray, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 8 to 14% intergranular porosity, no shows.

10% Shale
medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1845 to 1850 (5.00)

60% Sandstone
off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% inferred porosity with minor intervals up to 16% intergranular porosity, no shows.

30% Limestone
buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, occasional stylolites, tight, no shows.

10% Shale
medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1850 to 1855 (5.00)

70% Sandstone
off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% intercrystalline porosity with minor intervals up to 16% intergranular porosity, no shows.

20% Limestone
buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, occasional stylolites, tight, no shows.

10% Shale
medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite.

1855 to 1860 (5.00)

40% Limestone
buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

40% Sandstone
off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% intergranular porosity with minor intervals up to 16% intergranular porosity, no shows.

20% Shale
dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, trace carbonaceous specks, fine disseminated pyrite.

1860 to 1865 (5.00)

50% Limestone
light brown, buff, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

25% Shale
dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, trace carbonaceous specks, fine disseminated pyrite.

25% Sandstone
off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% intergranular porosity, no shows.

1865 to 1870 (5.00)

60% Shale
dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, trace carbonaceous specks, fine disseminated pyrite.

20% Sandstone
off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks & bitumen staining, 10 to 14% intergranular porosity, no shows.

20% Limestone
buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

1870 to 1880 (10.00)

60% Shale
dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated pyrite.

30% Limestone
light brown, buff, medium to light gray, dark gray, mudstone, microcrystalline to crystalline, hard to firm, occasional chalky, in part dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

10% Sandstone

off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, minor carbonaceous specks & bitumen staining, 10 to 14% intergranular porosity, no shows.

1880 to 1885 (5.00)

40% Shale
dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite.

30% Limestone
light brown, buff, medium to light gray, dark gray, mudstone, microcrystalline to crystalline, hard to firm, occasional chalky, in part dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

30% Sandstone
off white, clear, light gray, fine to medium grained, occasional coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, occasional carbonaceous specks & bitumen staining, mainly 10 to 14% intergranular porosity with minor intervals up to 16% intergranular porosity, no shows. Total Gas up to 5.69% at 1884m.

1885 to 1900 (15.00)

50% Shale
black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite.

35% Limestone
dark gray, light brown, buff, mudstone, microcrystalline to crystalline, hard to firm, brittle, very dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

15% Sandstone
off white, clear, light gray, fine to medium grained, occasional coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous & silica cement, very hard, indurated, fine disseminated pyrite, occasional carbonaceous specks & bitumen staining, mainly 8 to 12% intergranular porosity, no shows.

1900 to 1905 (5.00)

70% Shale
black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite.

20% Limestone
dark gray, light brown, buff, mudstone, microcrystalline to crystalline, hard to firm, brittle, very dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

10% Sandstone
off white, clear, light gray, fine to medium grained, occasional coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous & silica cement, very hard, indurated, fine disseminated pyrite, occasional carbonaceous specks & bitumen staining, mainly 8 to 12% intergranular porosity, no shows.

1905 to 1908 (3.00)

90% Shale
black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite, micro micaceous. (Bottom up sample: POOH to change Bit & BHA)

10% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, very dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

1908 to 1910 (2.00)

90% Shale
black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, trace fine disseminated pyrite, micro micaceous.

10% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

Formation: Yellow Point TVD: 1855.42m MD: 1923m

1910 to 1925 (15.00)

80% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, trace fine disseminated pyrite, micro micaceous, trace salt & pepper sandstone.

19% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

1% Chert
light brown, gray brown, clear, very hard, brittle, conchoidal break.

1925 to 1935 (10.00)

80% Shale

black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, trace fine disseminated pyrite, micro micaceous.

20% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

1935 to 1945 (10.00)

80% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, occasional nodular pyrite, micro micaceous.

20% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, & bitumen staining, trace fine disseminated pyrite, tight, no shows. Total Gas up to 7.22%.

1945 to 1960 (15.00)

90% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, occasional slickenside.

10% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

1960 to 1975 (15.00)

95% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, occasional slickenside, minor pyrite nodules,

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor sandstone grains, tight, no shows

1975 to 2005 (30.00)

95% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickenside,

5% Limestone

light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor salt & pepper sandstone grains, tight, no shows.

2005 to 2010 (5.00)

95% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickenside,

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard indurated sandstone grains, tight, no shows.

2010 to 2025 (15.00)

95% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickenside,

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows.

2025 to 2035 (10.00)

70% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickenside.

25% Sandstone
salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows.

2035 to 2040 (5.00)

65% Shale

black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickenside,

30% Sandstone
salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows.

2040 to 2044 (4.00)

65% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickenside,

30% Sandstone
salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows. (POOH for New Bit)

2044 to 2045 (1.00)

80% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, slightly calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, frequent slickenside.

15% Sandstone
salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

2045 to 2050 (5.00)

75% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, slightly calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, frequent slickenside.

20% Sandstone
salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

2050 to 2055 (5.00)

55% Shale
black, dark gray, gray brown, trace light green & red brown, blocky to platy, elongate, hard, splintery, silty, slightly calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, frequent slickenside.

40% Sandstone
salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

2055 to 2060 (5.00)

65% Shale
black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, slightly calcareous, occasional carbonaceous specks, micro micaceous, in part dolomitic, frequent slickenside.

30% Sandstone
salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

2060 to 2075 (15.00)

65% Shale
dark gray, gray brown, green gray, blocky to platy, hackly, firm to hard, in part earthy to smooth, trace waxy, calcareous, silty, micro micaceous.

30% Sandstone
salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

2075 to 2080 (5.00)

55% Shale
dark gray, gray brown, green gray, blocky to platy, hackly, firm to hard, in part earthy to smooth, trace waxy, calcareous, silty, micro micaceous.

40% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

2080 to 2090 (10.00)

70% Shale
dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside.

15% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

13% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with occasional clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

2% Chert
light gray, light brown, clear, very hard, brittle, conchoidal break.

2090 to 2100 (10.00)

70% Limestone
buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fracture with frequent clear crystalline calcite, rare bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.

20% Shale
dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside.

8% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

2% Chert
light gray, light brown, clear, very hard, brittle, conchoidal break.

2100 to 2110 (10.00)

70% Limestone
buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.

20% Shale
dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside.

10% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

2110 to 2135 (25.00)

70% Limestone
buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.

25% Shale
dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside.

5% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

2135 to 2140 (5.00)

75% Limestone
buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. **TG=64.89% at 2138.4m.**

20% Shale
dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside, common nodule pyrite.

5% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

2140 to 2145 (5.00)

55% Limestone
buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. **TG=70.74% at 2142.8m.**

40% Shale
dark gray, black, green gray, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, occasional slickenside, common nodule pyrite.

5% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

2145 to 2150 (5.00)

50% Shale
dark gray, black, green gray, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, occasional slickenside, common nodule pyrite.

43% Limestone
buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.

5% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

2% Chert
light green, clear, very hard, brittle, conchoidal break.

2150 to 2155 (5.00)

50% Shale
dark gray, black, green gray, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, occasional slickenside, common nodule pyrite.

40% Limestone
buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.

5% Sandstone
salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

5% Chert
light green, clear, very hard, brittle, conchoidal break.

2155 to 2160 (5.00)

65% Shale
dark gray, black, green gray, gray, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, minor slickenside, fine disseminated pyrite.

34% Limestone
buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part

dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.

1% Chert
light green, clear, very hard, brittle, conchoidal break.

2160 to 2165 (5.00)

75% Shale
dark gray, black, green gray, gray, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, minor slickenside, fine disseminated pyrite, trace chert.

25% Limestone
light brown, off white, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, occasional fine disseminated pyrite, tight, no shows.

2165 to 2170 (5.00)

90% Shale
dark gray, black, green gray, gray, medium brown, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, minor slickenside, fine disseminated pyrite, trace chert.

10% Limestone
light brown, off white, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, occasional fine disseminated pyrite, tight, no shows.

2170 to 2179 (9.00)

90% Shale
green gray, red brown, dark gray black, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly to non calcareous, occasional carbonaceous specks, minor slickenside, occasional pyrite nodules, trace chert. (POOH for new Bit & test BOP's)

10% Limestone
light brown, off white, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fractures with occasional white crystalline calcite, occasional bitumen staining, occasional fine disseminated pyrite, trace sandstone grains, tight, no shows.

2179 to 2180 (1.00)

90% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly to non calcareous, occasional carbonaceous specks, minor slickenside, occasional pyrite nodules, micro micaceous.

10% Limestone

light brown, off white, mudstone, microcrystalline to cryptocrystalline, hard to firm, in part dolomitic, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

2180 to 2195 (15.00)

90% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly to non calcareous, occasional carbonaceous specks, minor slickenside, occasional pyrite nodules, micro micaceous.

10% Limestone
light brown, off white, mudstone, microcrystalline to cryptocrystalline, hard to firm, in part dolomitic, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

2195 to 2205 (10.00)

90% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non calcareous, occasional carbonaceous specks, frequent slickenside, occasional pyrite nodules, micro micaceous.

10% Limestone
off white, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white crystalline dolomite, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

2205 to 2225 (20.00)

80% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non calcareous, occasional carbonaceous specks, frequent slickenside, occasional pyrite nodules, micro micaceous.

20% Limestone
off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional white crystalline dolomite, fractures with frequent white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

Formation: Goose (American)Tickle TVD: 2135.84m MD: 2227m

2225 to 2230 (5.00)

50% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non calcareous, occasional carbonaceous specks, frequent slickenside, occasional pyrite nodules, micro micaceous.

30% Sandstone
light gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, hard to firm, consolidated with calcareous & silica cement, abundant lithic fragments, trace glauconite, 8 to 14% intergranular porosity, no shows.

20% Limestone
off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional white crystalline dolomite, fractures with frequent white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

2230 to 2240 (10.00)

50% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non calcareous, occasional carbonaceous specks, frequent slickenside, occasional pyrite nodules, micro micaceous.

40% Sandstone
light gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, very hard to firm, in part indurated, consolidated with calcareous cement, abundant lithic fragments, trace glauconite, 8 to 14% intergranular porosity, no shows.

10% Limestone
off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional white crystalline dolomite, fractures with frequent white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

2240 to 2250 (10.00)

60% Sandstone
light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

35% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, minor slickenside, micro micaceous.

5% Limestone
off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.

2250 to 2260 (10.00)

50% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, minor slickenside, micro micaceous.

45% Sandstone
light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

5% Limestone
off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.

2260 to 2275 (15.00)

60% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous.

35% Sandstone
light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.

2275 to 2280 (5.00)

55% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous.

40% Sandstone
light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

5% Limestone

light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.

2280 to 2295 (15.00)

55% Sandstone
light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

40% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.

2295 to 2298.5 (3.50)

60% Sandstone
light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, frequent friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows. (TOTAL DEPTH.= 2298mMD at 14:55 hrs. 2010-04-19. Wireline & RIH with 244mm CASING)

35% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.

2298.5 to 2300 (1.50)

60% Sandstone
light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, frequent friable, consolidated with calcareous & silica cement, abundant lithic fragments, trace glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

30% Shale
dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, tight, no shows.

5% Cement
light brown, hard to firm, in part brittle, fine to medium grained.

2300 to 2305 (5.00)

80% Sandstone
light to medium gray, speckled light gray green, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, trace nodular pyrite, minor serpentine + white crystalline calcite, 8 to 14% inter granular porosity, no shows.

15% Shale
gray light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly calcareous, grading fine grained siltstone.

5% Cement
light brown, hard to firm, in part brittle, fine to medium grained.

2305 to 2315 (10.00)

70% Sandstone
light to medium gray, speckled light gray green, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, trace nodular pyrite, minor serpentine + white crystalline calcite, 8 to 14% inter granular porosity, no shows.

30% Shale
gray light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly calcareous, grading fine grained siltstone.

2315 to 2320 (5.00)

65% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, trace nodular pyrite, minor serpentine + white crystalline calcite, 8 to 14% inter granular porosity, no shows.

30% Shale

medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly calcareous, grading fine grained siltstone, trace chert.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, fractures with occasional white crystalline calcite, rare bitumen staining, tight, no shows.

2320 to 2345 (25.00)

70% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, frequent lithic fragments, trace nodular pyrite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

30% Shale
medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly calcareous, grading fine grained siltstone, trace chert.

2345 to 2360 (15.00)

80% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, frequent lithic fragments, very argillaceous, trace nodular pyrite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

20% Shale
medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone.

2360 to 2365 (5.00)

70% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, trace nodular pyrite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

30% Shale
medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone.

2365 to 2395 (30.00)

60% Shale
medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone.

40% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, frequent white crystalline calcite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2395 to 2415 (20.00)

60% Shale
medium gray, green gray, light brown, firm to hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.

30% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

10% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white crystalline calcite, tight, no shows.

2415 to 2425 (10.00)

60% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.

30% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

10% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white + clear crystalline calcite, tight, no shows.

2425 to 2435 (10.00)

55% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

40% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.

5% Limestone
light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white + clear crystalline calcite, tight, no shows.

2435 to 2455 (20.00)

60% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

40% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.

2455 to 2465 (10.00)

70% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.

30% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2465 to 2480 (15.00)

60% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.

40% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, common white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2480 to 2485 (5.00)

60% Shale

medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.(POOH for new Bit)

40% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, common white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2485 to 2495 (10.00)

60% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks

40% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, common white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2495 to 2515 (20.00)

70% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside.

30% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2515 to 2525 (10.00)

50% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside.

50% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2525 to 2530 (5.00)

60% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

40% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite.

2530 to 2545 (15.00)

50% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

50% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite.

2545 to 2555 (10.00)

60% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite.

40% Sandstone
light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

2555 to 2585 (30.00)

80% Shale
medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite.

20% Sandstone

light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

Formation: Table Cove TVD: 2493.12m MD: 2589m

2585 to 2590 (5.00)

70% Shale
dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

30% Limestone
white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcite, tight, no shows.

2590 to 2605 (15.00)

70% Limestone
white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcite, tight, no shows.

30% Shale
dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

2605 to 2615 (10.00)

80% Limestone
white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcite, tight, no shows.

20% Shale
dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

Formation: Table Point TVD: 2523.12m MD: 2619m

2615 to 2635 (20.00)

80% Limestone

white, off white, buff, cream, light brown, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, frequent clear to white crystalline calcite, no visible porosity, no shows.

20% Shale
dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

2635 to 2650 (15.00)

90% Limestone
light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

10% Shale
dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

2650 to 2725 (75.00)

90% Limestone
light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

10% Shale
dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m)

2725 to 2750 (25.00)

95% Limestone
white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

5% Shale
dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m)

2750 to 2767 (17.00)

95% Limestone
white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear

to white crystalline calcite, frequent bitumen staining, no visible porosity, no shows. (POOH for Bit Change at 2767m)

5% Shale
dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m)

Formation: Aguathuna TVD: 2674.09m MD: 2770m

2767 to 2775 (8.00)

90% Limestone
white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, frequent bitumen staining, slightly dolomitic, no visible porosity, no shows.

10% Shale
dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m)

2775 to 2780 (5.00)

50% Limestone
white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, frequent bitumen staining, slightly dolomitic, no visible porosity, no shows.

40% Dolomite
white, off white, light brown, microcrystalline to crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, trace bitumen staining, poor intercrystalline porosity, no shows.

10% Shale
dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m)

2780 to 2785 (5.00)

70% Dolomite
white, off white, light brown, microcrystalline to crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, trace bitumen staining, poor intercrystalline porosity, no shows.

25% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, frequent bitumen staining, slightly dolomitic, no visible porosity, no shows.

5% Shale
light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous.

2785 to 2790 (5.00)

80% Dolomite
dark to light brown, off white, microcrystalline to fine crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, stylolitic, trace bitumen staining, poor intercrystalline porosity, trace light brown chert, no shows.

15% Limestone
white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, in part brittle, stylolitic, argillaceous, no visible porosity, no shows.

5% Shale
light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous.

2790 to 2800 (10.00)

60% Dolomite
dark to light brown, off white, microcrystalline to fine crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, blocky to platy, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.

35% Limestone
white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, no visible porosity, no shows.

5% Shale
light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous.

2800 to 2811 (11.00)

75% Dolomite
light to dark brown, off white, buff, microcrystalline to fine crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, blocky to platy, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows. (POOH at 2811m to Pickup new Bit)

20% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, no visible porosity, no shows.

5% Shale
light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous.

2810 to 2820 (10.00)

75% Dolomite
white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, minor sucrosic texture, firm to hard, in part brittle, occasional siliceous, blocky to platy, fine disseminated pyrite, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.

25% Limestone
cream, buff, gray, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows.

Formation: Catoche TVD: 2727.08m MD: 2823m

2820 to 2842 (22.00)

80% Dolomite
white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, common sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, fine disseminated pyrite, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows. (POOH: Slow ROP. Lay down Directional Tool & Pickup new Bit.)

15% Limestone
cream, buff, gray, light brown, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows.

5% Shale
light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous.

2842 to 2855 (13.00)

85% Dolomite
white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, common sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, fine disseminated pyrite, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.

15% Limestone
cream, buff, gray, light brown, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows.

2855 to 2870 (15.00)

85% Dolomite
white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, common sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear rhombic crystals, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.

15% Limestone
cream, buff, gray, light brown, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows.

2870 to 2880 (10.00)

85% Dolomite
medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear rhombic crystals, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.

15% Limestone
cream, buff, gray, light brown, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows.

2880 to 2890 (10.00)

85% Dolomite
medium to dark brown, buff, off white, microcrystalline to abundant coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows.

15% Limestone
cream, buff, light brown, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, grading dolomitic, no visible porosity, no shows.

2890 to 2895 (5.00)

80% Dolomite
medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent

veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows.

20% Limestone
light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, trace clear calcite veining, grading dolomitic, no visible porosity, no shows.

2895 to 2905 (10.00)

50% Dolomite
mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear dolo-rhombic stringers, stylolitic, frequent bitumen staining, poor to scattered fair intercrystalline porosity, no shows.

50% Limestone
mottled light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, chalky, stylolitic with frequent bitumen staining, occasional clear calcite veining, no visible porosity, no shows.

2905 to 2924 (19.00)

70% Dolomite
mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, minor disseminated fine grained pyrite, occasional veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows. (POOH for new BIT)

30% Limestone
light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, chalky, stylolitic with occasional bitumen staining, occasional clear calcite veining, no visible porosity, no shows.

2924 to 2930 (6.00)

70% Dolomite
mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, occasional sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, minor disseminated fine grained pyrite, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows.

30% Limestone
light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, chalky, stylolitic with occasional bitumen staining, occasional clear calcite veining, no visible porosity, no shows.

Formation: Boat Harbour TVD: 2838.06m MD: 2934m

2930 to 2935 (5.00)

70% Limestone
medium to light brown, cream, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, trace bitumen staining, no visible porosity, no shows.

30% Dolomite
light to medium brown, cream, microcrystalline to fine crystalline, massive, granular, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, occasional thin carbonaceous shale laminae, poor intercrystalline porosity, no shows.

2935 to 2955 (20.00)

80% Limestone
medium to light brown, cream, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, occasional fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

20% Dolomite
light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

2955 to 2975 (20.00)

90% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional to frequent clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

10% Dolomite
light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

2975 to 2979 (4.00)

90% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky,

frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows (Poor quality sample. Mainly sawdust + Shale cavings from Goose Tickle Formation. POOH to change out Mud Motor)

10% Dolomite
light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

2979 to 2995 (16.00)

90% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows

10% Dolomite
light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

2995 to 3000 (5.00)

90% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows

10% Dolomite
light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

3000 to 3010 (10.00)

90% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows. (Increase Shale Cavings: Reduced MW: from 1200 to 1145kg/m3)

10% Dolomite
light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

3010 to 3035 (25.00)

95% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

5% Dolomite
light to medium brown, cream, microcrystalline to fine crystalline, massive, trace sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, occasional veining with clear dolo-rhombic stringers, trace bitumen staining, poor intercrystalline porosity, no shows.

3035 to 3045 (10.00)

80% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

20% Dolomite
buff, cream, microcrystalline to fine crystalline, massive, occasional sucrosic texture, trace evidence of recrystallization, hard to firm cementation, brittle, platy, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

3045 to 3050 (5.00)

80% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

20% Dolomite
buff, cream, microcrystalline to fine crystalline, occasional coarse crystalline, massive, occasional sucrosic texture, trace evidence of recrystallization, hard to firm cementation, brittle, platy, occasional fine disseminated pyrite, common bitumen staining, poor intercrystalline porosity, no shows.

3050 to 3055 (5.00)

60% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

40% Dolomite
off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, abundant evidence of recrystallization with frequent dolo-rhombic crystals, hard to firm cementation, brittle, platy, occasional fine disseminated pyrite, frequent bitumen staining, poor to fair intercrystalline porosity, no shows.

Formation: Watts Bight TVD: 2963.05m MD: 3059m

3055 to 3060 (5.00)

50% Dolomite
off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, abundant evidence of recrystallization with frequent dolo-rhombic crystals, hard to firm cementation, brittle, platy, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.

50% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

3060 to 3065 (5.00)

60% Dolomite
light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sub sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.

40% Limestone
medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

3065 to 3070 (5.00)

80% Dolomite
light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sub sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.

20% Limestone
medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

3070 to 3079 (9.00)

90% Dolomite
light brown, off white, buff, cream, microcrystalline to abundant coarse crystalline, massive, frequent sub sucrosic texture, frequent evidence of recrystallization, occasional veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, slightly siliceous, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.(POOH to change Mud Motor & Bit)

10% Limestone
medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

3079 to 3085 (6.00)

90% Dolomite
light gray, off white, buff, cream, microcrystalline to abundant coarse crystalline, massive, frequent sub sucrosic texture, frequent evidence of recrystallization, occasional veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, slightly siliceous, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.(Sample has 20% Shale+Sandstone cavings).

10% Limestone
medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

3085 to 3090 (5.00)

90% Dolomite
light gray, off white, buff, cream, microcrystalline to abundant coarse crystalline, massive, frequent sub sucrosic texture, frequent evidence of recrystallization, occasional veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, slightly siliceous, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, trace light brown chert, poor to fair intercrystalline porosity, no shows.

10% Limestone
medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

3090 to 3095 (5.00)

90% Dolomite
off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to occasional fair intercrystalline porosity, no shows.

10% Limestone
medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

3095 to 3107.5 (12.50)

90% Dolomite
mottled light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

10% Limestone
medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

3107.5 to 3110 (2.50)

90% Dolomite
mottled light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, occasional evidence of recrystallization, minor veining with coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to occasional fair intercrystalline porosity, no shows.

9% Limestone
medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

1% Chert
light brown, off white, very hard, conchoidal.

3110 to 3117.5 (7.50)

90% Dolomite
white, off white, buff, cream, microcrystalline to fine crystalline, massive, common sucrosic texture, occasional evidence of recrystallization, minor veining with coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.

10% Limestone
medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, platy to blocky, stylolitic, fine disseminated pyrite, no visible porosity, no shows.

3117.5 to 3122.5 (5.00)

80% Dolomite
white, off white, buff, cream, microcrystalline to fine crystalline, massive, common sucrosic texture, occasional evidence of recrystallization, minor veining with coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.

19% Limestone
buff, off white, cream, buff, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, fine disseminated pyrite, no visible porosity, no shows.

1% Chert
light brown, off white, very hard, conchoidal.

3122.5 to 3125 (2.50)

60% Dolomite
off white, light brown, buff, microcrystalline to fine crystalline, massive, minor sucrosic texture, hard to firm, relic texture of original limestone, moderate to well cemented with dolosparite, in part brittle, platy, minor fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.

38% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, fine disseminated pyrite, no visible porosity, no shows.

2% Chert
light brown, pale white, very hard, conchoidal.

3125 to 3127.5 (2.50)

90% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, hard to firm, relic texture of original limestone, moderate to well cemented with dolosparite, in part brittle, platy, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

9% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

1% Chert
light brown, pale white, very hard, conchoidal.

Formation: Berry Head TVD: 3032.05m MD: 3128m

3127.5 to 3130 (2.50)

85% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, hard to firm, moderate to well cemented with dolosparite, in part brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

10% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

5% Chert
light brown, pale white, very hard, conchoidal.

3130 to 3132.5 (2.50)

90% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, hard to firm, moderate to well cemented with dolosparite, in part brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

9% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

1% Chert
light brown, pale white, very hard, conchoidal.

3132.5 to 3137.5 (5.00)

90% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well

cemented with dolosparite, in part brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

7% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

3% Chert
light brown, pale white, very hard, conchoidal.

3137.5 to 3142.5 (5.00)

90% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, in part brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

9% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

1% Chert
light brown, pale white, very hard, conchoidal.

3142.5 to 3150 (7.50)

90% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, occasional sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, abundant brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

9% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

1% Chert
light brown, pale white, very hard, conchoidal.

3150 to 3152.5 (2.50)

90% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, occasional sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, abundant brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

10% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

3152.5 to 3157.5 (5.00)

90% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, occasional sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, abundant brittle, platy, occasional friable, frequent fine disseminated pyrite, stylolitic, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

10% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

3157.5 to 3160 (2.50)

90% Dolomite
off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, occasional sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, abundant brittle, platy, occasional friable, frequent fine disseminated pyrite, stylolitic, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows. **(FTD=3160m at 2010-04-14 at 20:10hrs)**

10% Limestone
buff, off white, cream, mudstone, microcrystalline to cryptocrystalline, micritic, firm to hard, platy to blocky, in part brittle, occasional white chalky, fine disseminated pyrite, no visible porosity, no shows.

FTD = 3160mMD

Well Information

Operator:	Nalcor Energy - Oil and Gas Inc.
Well Name:	Nalcor et al Seamus - 1
Location:	Parson's Pond
UWI:	Seamus-1
Pool:	
Field:	
Province / State:	Newfoundland
Country:	Canada

Total Depth

Measurement Type	MD	TVD
Drillers TD (Tally)	3160 m	3064.04 m
Drillers TD (Strap or SLM)	m	m
Loggers TD	3129 m	3033.05 m

Well Co - Ordinates

Well Type: Deviated

	Longitude	Latitude	
Surface Co-Ordinates:	W 57° 42' 0.191"	N 49° 58' 48.06660"	**S:** N 5536643.897 m **EW:** E 449808.655 m
Int. Casing Co-Ordinates:			**NS:** **EW:**
Bottom Hole Co-Ordinates:	W 57 41 37.39	N 49 58 45.93	**NS:** 5536573.66 N **EW:** 450264.22 E
UTM Surface Co-Ordinates:	**Northing:**		**Easting:**

Elevations

Reference:	GL
Ground:	20.7 m
Cut(-) / Fill(+):	
K.B. to Ground:	m
Kelly Bushing:	26.3 m
Casing Flange:	m

Well Summary

Spud Date:	Feb 15, 2010 @ 22:30hrs
TD Date:	May 14, 2010 @ 20:10hrs
Rig Release Date:	May 22, 2010 @ 12:00hrs
Contractor:	Stoneham 11

Casing Summary

Type	Hole Size	Casing Size	Landed At
Conductor	644 mm	540 mm	23 m
Surface	444.5 mm	340 mm	601 m
Intermediate	311 mm	244 mm	2292.5 m

Drilling Fluid Summary

Fluid Type	From	To
GelChem Water Based.	20 m	3160 m

Work Schedule

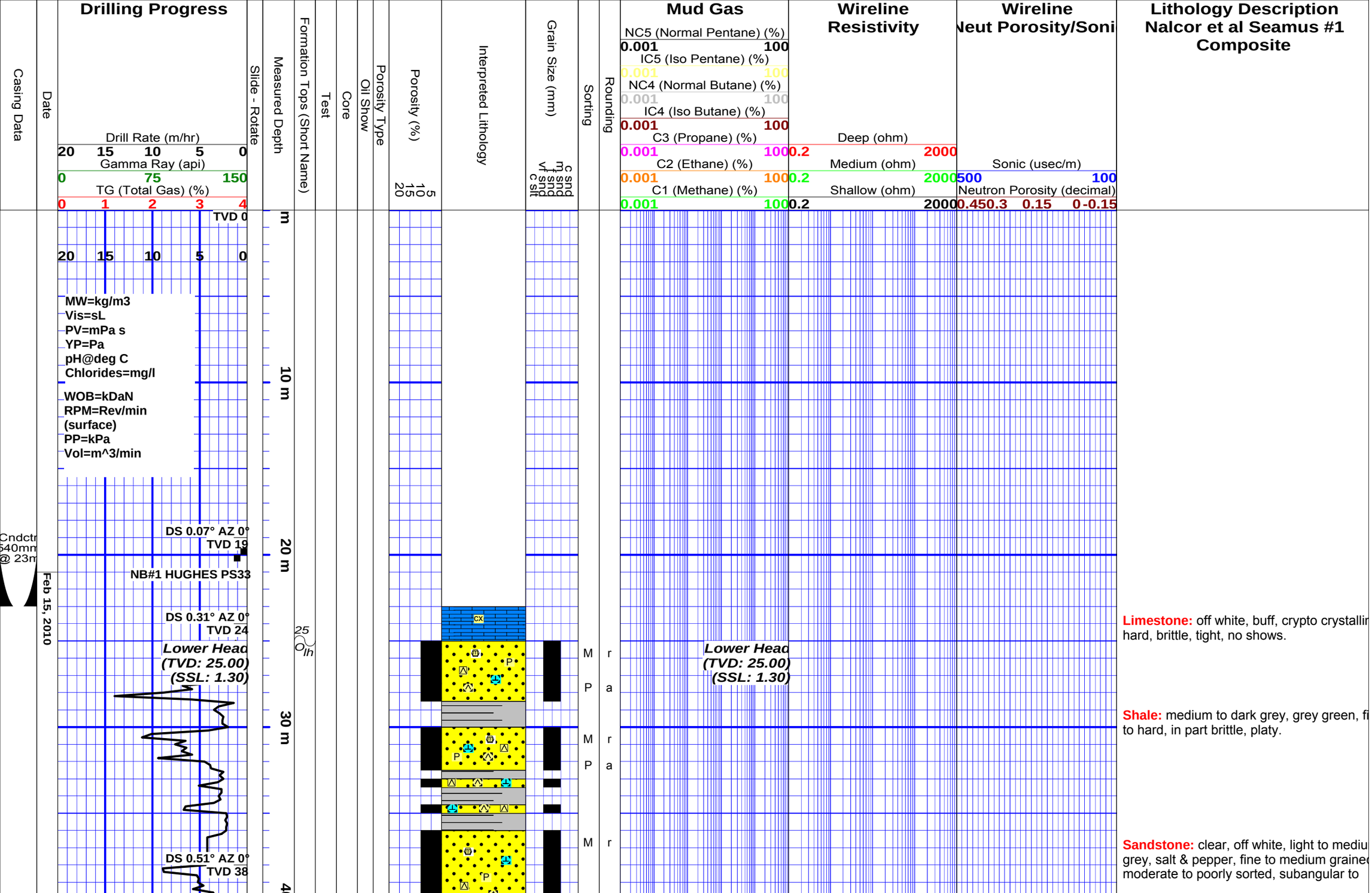
Contractor	Geologist	Log Interval	Dates Logged
Rolter Holdings Ltd.	Roland Strickland	20 m - 3160 m	Feb 17, 2010 - May 14, 2010

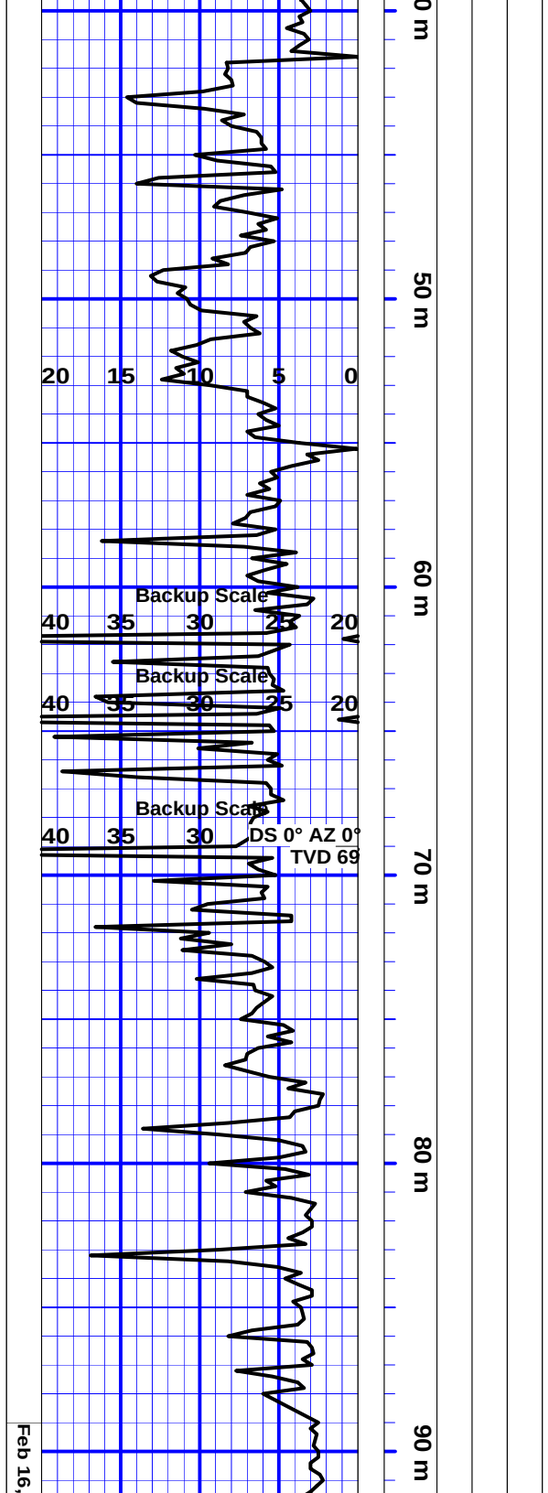
Remarks

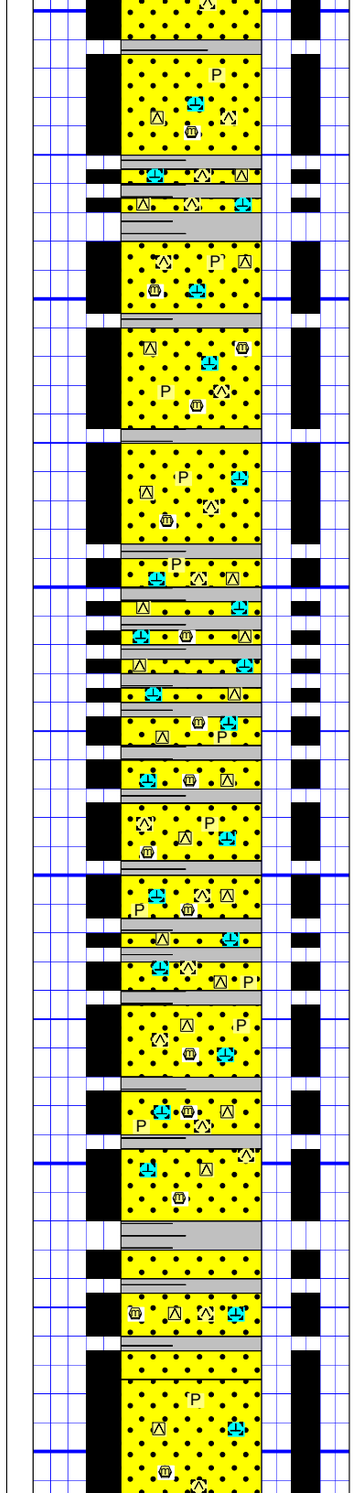
Legend

- Chert light (Rock)
- Dolomite (Rock)
- Limestone mud supported (Rock)
- Shale black (Rock)
- Shale dark gray (Rock)
- Shale green (Rock)
- Shale medium gray (Rock)
- Sandstone (Rock)
- Conglomerate mixed rock type (Stringers)
- Chert light (Stringers)
- Chert varicolored (Stringers)
- Limestone mud supported (Stringers)
- Shale red (Stringers)
- Shale gray (Stringers)
- Siltstone (Stringers)
- Sandstone (Stringers)
- Calcareous (Cement)
- Dolomitic (Cement)
- Siliceous (Cement)
- Argillaceous (Matrix)
- Sparry calcite (Matrix)
- X — Intercrystalline - interfragmental - intergranular (Porosity)
- Chert light (Grain)
- Feldspar (Grain)
- Quartz (Grain)
- Argillaceous (Accessory)
- Calcareous (Accessory)
- Carbonaceous (Accessory)
- C — Chalky (Texture)
- cx — Crptocrystalline (Texture)
- Fracture (Accessory)
- Glauconite grains (Grain)
- L — Lithic grain (Accessory)
- MS — Mudstone (Texture)
- Micaceous (Grain)
- Micromicaceous (Accessory)
- mx — Microcrystalline (Texture)
- P — Pyritic (Accessory)
- Sandy (Accessory)
- Slickenside (Accessory)
- Silty (Accessory)
- Stylolitic (Accessory)
- WS — Wackestone (Texture)
- Slide (Slides)

* Abundance: Trace Occasional Common Abundant No Indication


Casing Data
Date
Drilling Progress
Drill Rate (m/hr)
20 15 10 5 0
Gamma Ray (api)
0 75 150
TG (Total Gas) (%)
0 1 2 3 4
Slide - Rotate
Measured Depth
Formation Tops (Short Name)
Test
Core
Oil Show
Porosity Type
Porosity (%)
5 10 15 20
Interpreted Lithology
Grain Size (mm)
c snd
m snd
f snd
vf snd
c slt
Sorting
Rounding
Mud Gas
NC5 (Normal Pentane) (%)
0.001 100
IC5 (Iso Pentane) (%)
0.001 100
NC4 (Normal Butane) (%)
0.001 100
IC4 (Iso Butane) (%)
0.001 100
C3 (Propane) (%)
0.001 100
C2 (Ethane) (%)
0.001 100
C1 (Methane) (%)
0.001 100
Wireline Resistivity
Deep (ohm)
0.2 2000
Medium (ohm)
0.2 2000
Shallow (ohm)
0.2 2000
Wireline Neut Porosity/Soni
Sonic (usec/m)
500 100
Neutron Porosity (decimal)
0.45 0.3 0.15 0 -0.15
Lithology Description
Nalcor et al Seamus #1
Composite
TVD 0
20 15 10 5 0
MW=kg/m3
Vis=sL
PV=mPa s
YP=Pa
pH@deg C
Chlorides=mg/l
WOB=kDaN
RPM=Rev/min
(surface)
PP=kPa
Vol=m^3/min
DS 0.07° AZ 0°
TVD 19
NB#1 HUGHES PS33
DS 0.31° AZ 0°
TVD 24
Lower Head
(TVD: 25.00)
(SSL: 1.30)
25
Oil
DS 0.51° AZ 0°
TVD 38
m
10 m
20 m
30 m
40
Feb 15, 2010
Cndctr
540mm
@ 23m
cx
P
M r
P a
M r
P a
M r
Lower Head
(TVD: 25.00)
(SSL: 1.30)
Limestone: off white, buff, crypto crystallin
hard, brittle, tight, no shows.
Shale: medium to dark grey, grey green, fi
to hard, in part brittle, platy.
Sandstone: clear, off white, light to mediu
grey, salt & pepper, fine to medium grained
moderate to poorly sorted, subangular to





consolidated with calcareous cement, sligh
siliceous, frequent bronze mica, occasiona
green sericitized serpentine, trace fine
disseminated pyrite, 8 to 12% inferred
porosity, no shows

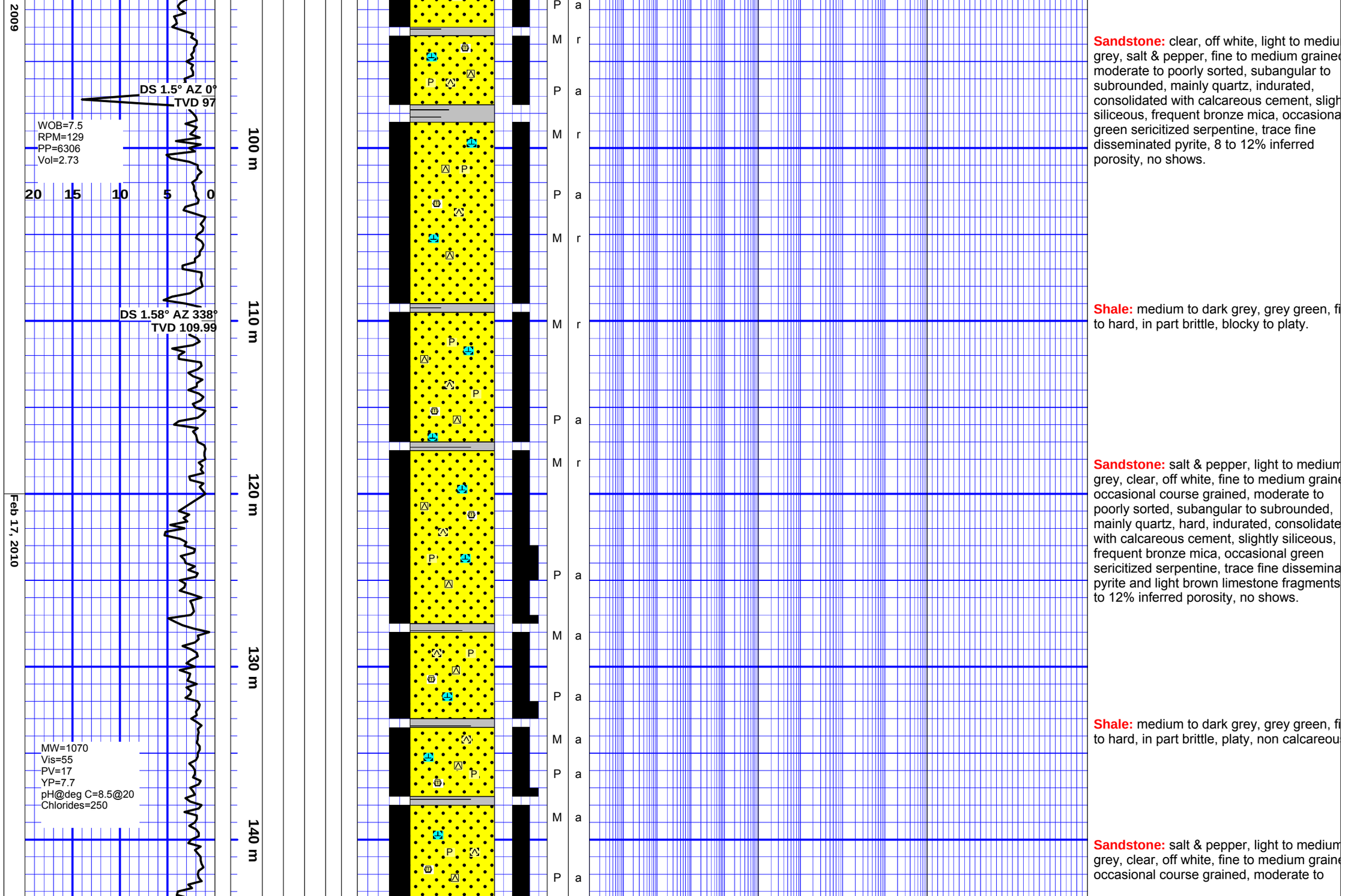
Shale: medium to dark grey, grey green, fi
to hard, in part brittle, platy.

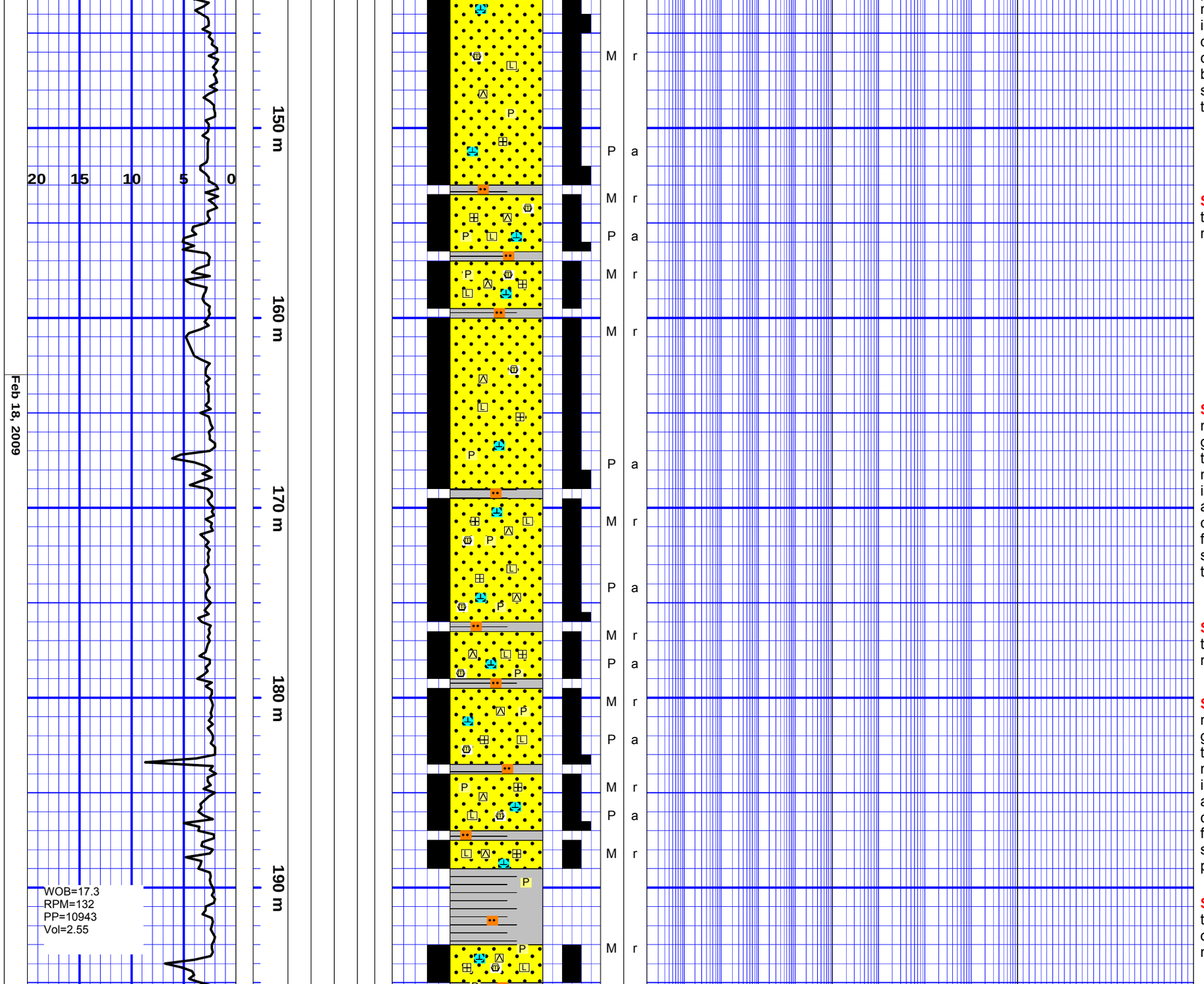
Sandstone: clear, off white, light to mediu
grey, salt & pepper, fine to medium graine
moderate to poorly sorted, subangular to
subrounded, mainly quartz, indurated,
consolidated with calcareous cement, sligh
siliceous, frequent bronze mica, occasiona
green sericitized serpentine, trace fine
disseminated pyrite, 8 to 12% inferred
porosity, no shows.

Shale: medium to dark grey, grey green, fi
to hard, in part brittle, platy.

Sandstone: clear, off white, light to mediu
grey, salt & pepper, fine to medium graine
moderate to poorly sorted, subangular to
subrounded, mainly quartz, indurated,
consolidated with calcareous cement, sligh
siliceous, frequent bronze mica, occasiona
green sericitized serpentine, trace fine
disseminated pyrite, 8 to 12% inferred
porosity, no shows.

Shale: medium to dark grey, grey green, fi
to hard, in part brittle, platy, non calcareou


2009
DS 1.5° AZ 0°
TVD 97
WOB=7.5
RPM=129
PP=6306
Vol=2.73
20
15
10
5
0
DS 1.58° AZ 338°
TVD 109.99
100 m
110 m
120 m
130 m
140 m
Feb 17, 2010
MW=1070
Vis=55
PV=17
YP=7.7
pH@deg C=8.5@20
Chlorides=250
P a
M r
P a
M r
P a
M r
P a
M r
P a
M a
P a
M a
P a
M a
P a
Sandstone: clear, off white, light to mediu
grey, salt & pepper, fine to medium grained
moderate to poorly sorted, subangular to
subrounded, mainly quartz, indurated,
consolidated with calcareous cement, sligh
siliceous, frequent bronze mica, occasiona
green sericitized serpentine, trace fine
disseminated pyrite, 8 to 12% inferred
porosity, no shows.
Shale: medium to dark grey, grey green, fi
to hard, in part brittle, blocky to platy.
Sandstone: salt & pepper, light to medium
grey, clear, off white, fine to medium graine
occasional course grained, moderate to
poorly sorted, subangular to subrounded,
mainly quartz, hard, indurated, consolidate
with calcareous cement, slightly siliceous,
frequent bronze mica, occasional green
sericitized serpentine, trace fine dissemina
pyrite and light brown limestone fragments
to 12% inferred porosity, no shows.
Shale: medium to dark grey, grey green, fi
to hard, in part brittle, platy, non calcareou
Sandstone: salt & pepper, light to medium
grey, clear, off white, fine to medium graine
occasional course grained, moderate to



mainly quartz, hard to firm, moderate indurated, abundant orange feldspar, and dark lithic fragments, consolidated with calcareous cement, slightly siliceous, frequ bronze mica, occasional green sericitized serpentine, trace fine disseminated pyrite, to 12% inferred porosity, no shows.

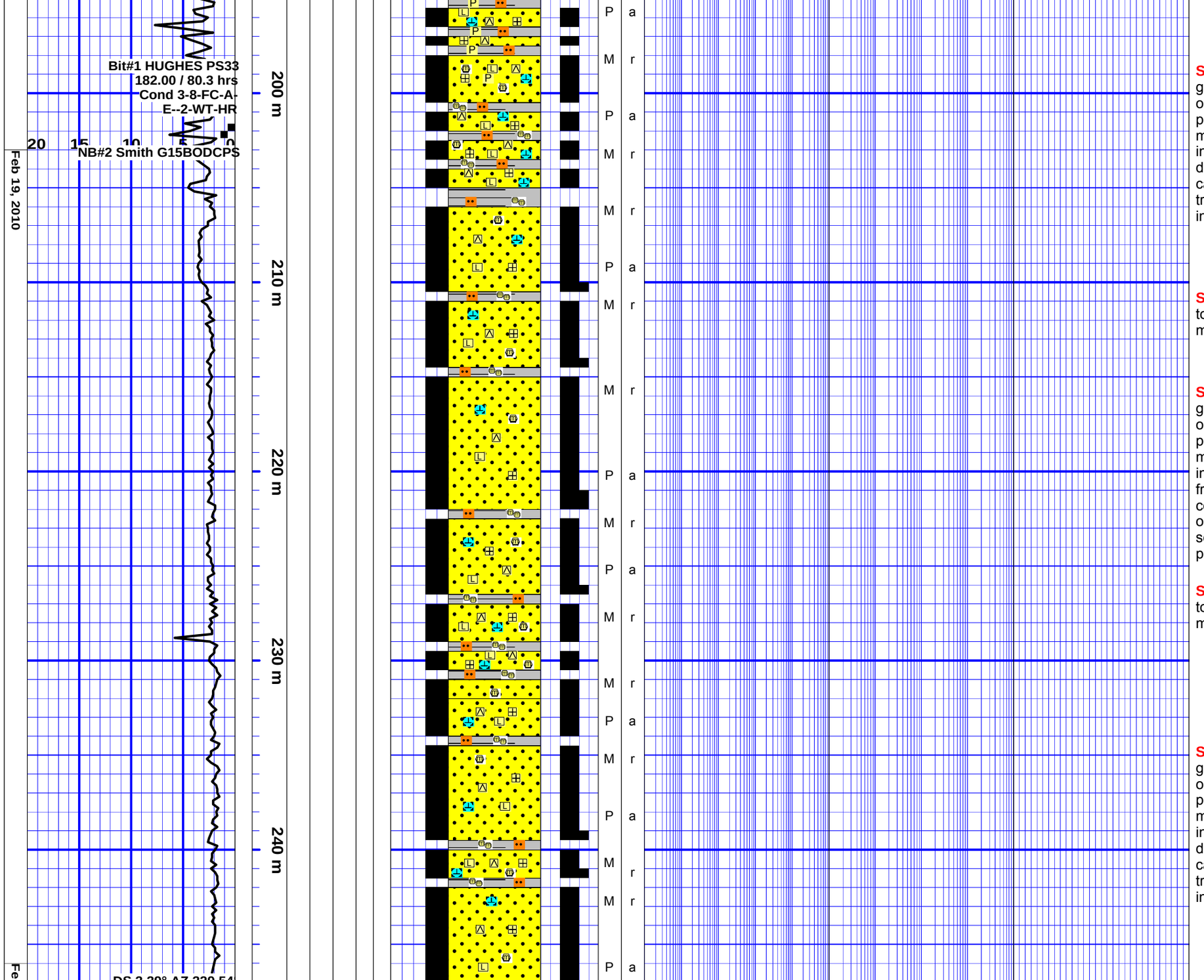
Shale: medium to dark grey, grey green, fi to hard, in part brittle, platy to blocky, silty, non calcareous.

Sandstone: salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moder to poorly sorted, subangular to subrounded mainly loose quartz, hard to firm, slightly indurated, frequent orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, frequent bronze mica, trace green sericitiz serpentine, trace fine disseminated pyrite, to 12% inferred porosity, no shows.

Shale: medium to dark grey, grey green, fi to hard, in part brittle, platy to blocky, silty, non calcareous.

Sandstone: salt & pepper, clear, light to medium grey, off white, fine to medium grained, occasional course grained, moder to poorly sorted, subangular to subrounded mainly loose quartz, hard to firm, slightly indurated, frequent orange feldspar, abundant dark lithic fragments, weak consolidated with calcareous cement, frequent bronze mica, frequent green sericitized serpentine, trace fine dissemina pyrite, 8 to 12% inferred porosity, no shows

Shale: dark to medium grey, grey green, fi to hard, in part brittle, platy to blocky, silty, occasional fine grained disseminated pyrite non calcareous.



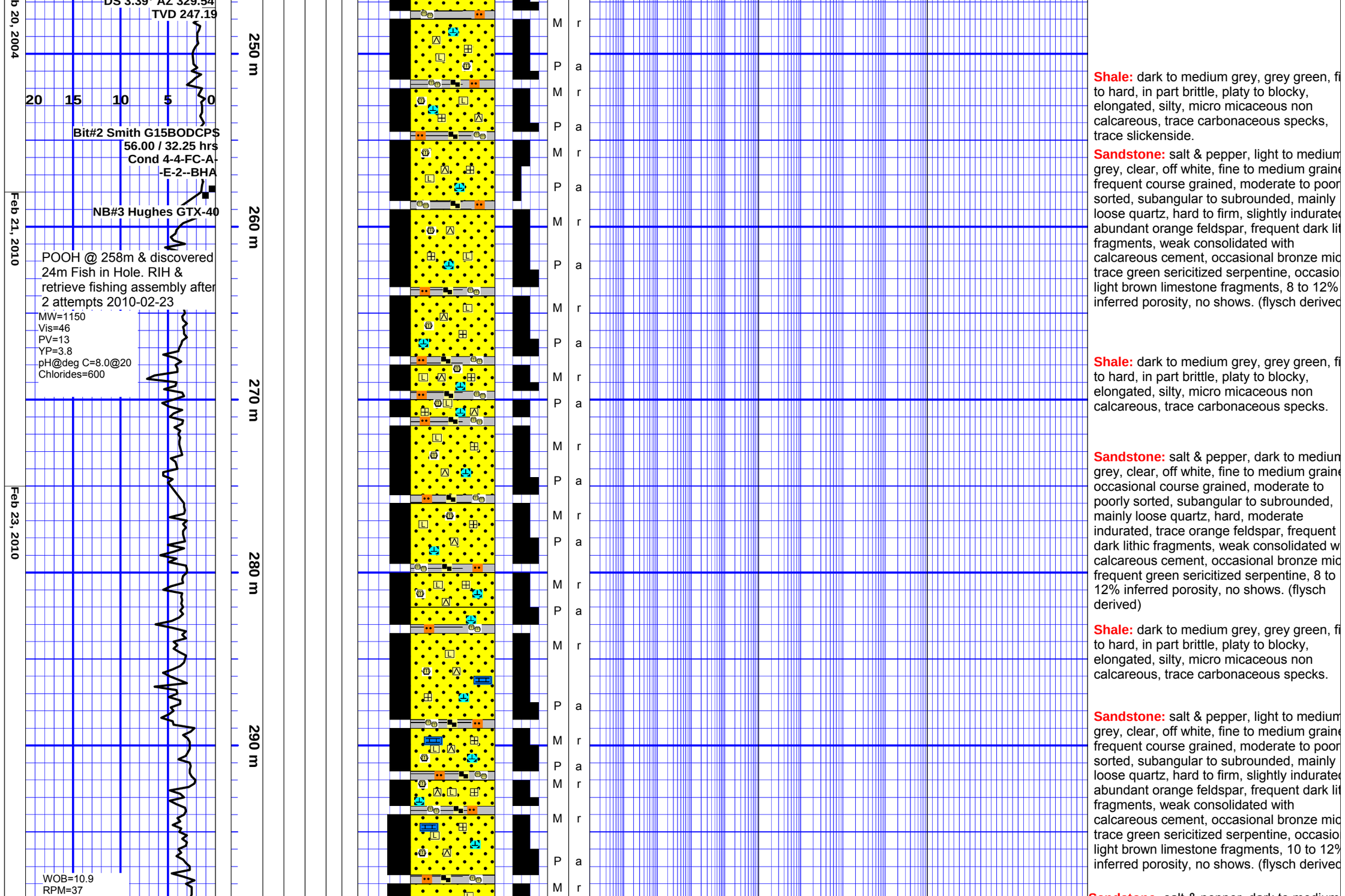
Sandstone: salt & pepper, dark to mediun grey, clear, off white, fine to medium graine occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, trace orange feldspar, abundant dark lithic fragments, weak consolidated w calcareous cement, occasional bronze mic trace green sericitized serpentine, 8 to 12% inferred porosity, no shows.

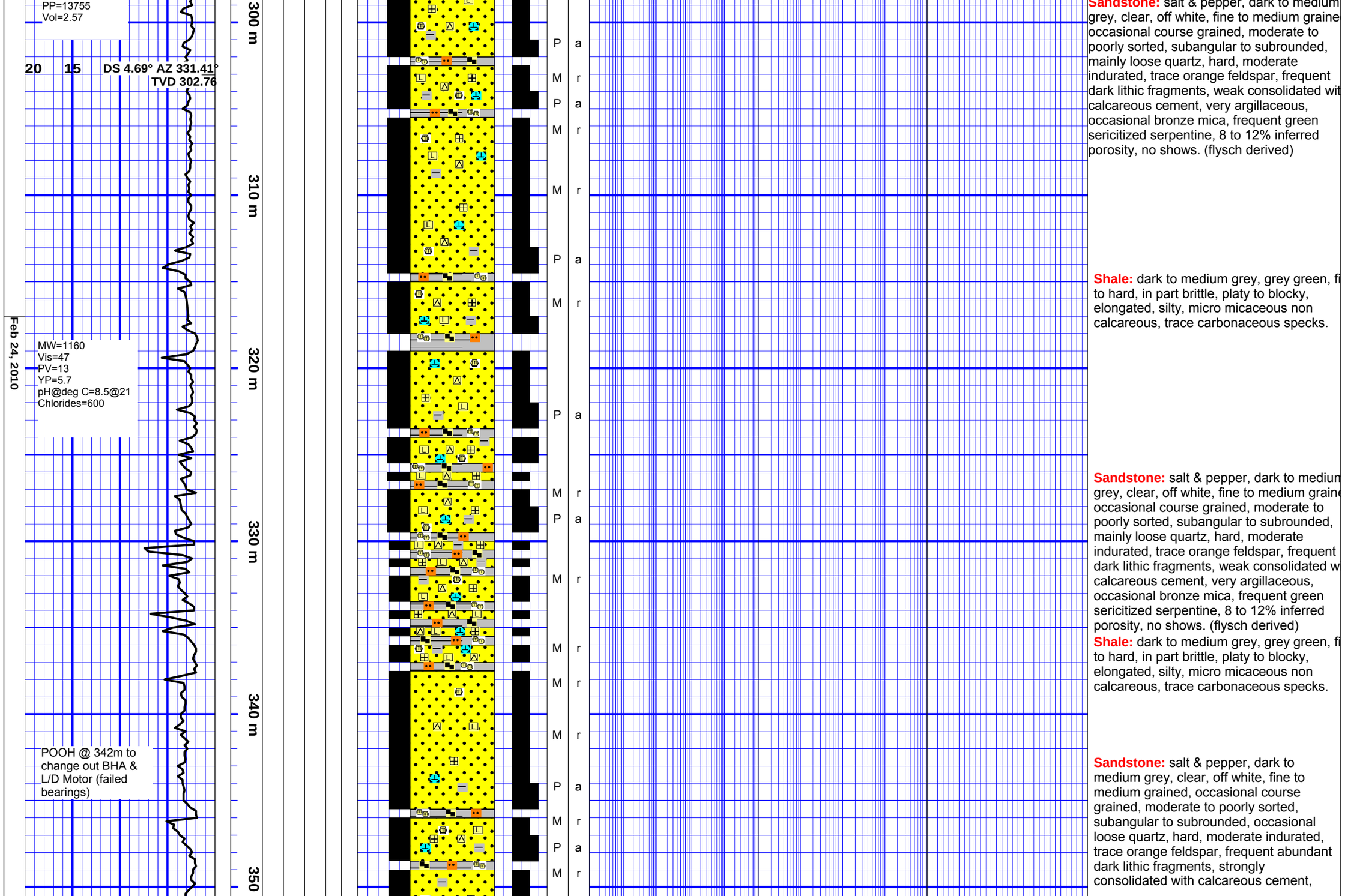
Shale: dark to medium grey, grey green, fi to hard, in part brittle, platy to blocky, silty, micro micaceous non calcareous.

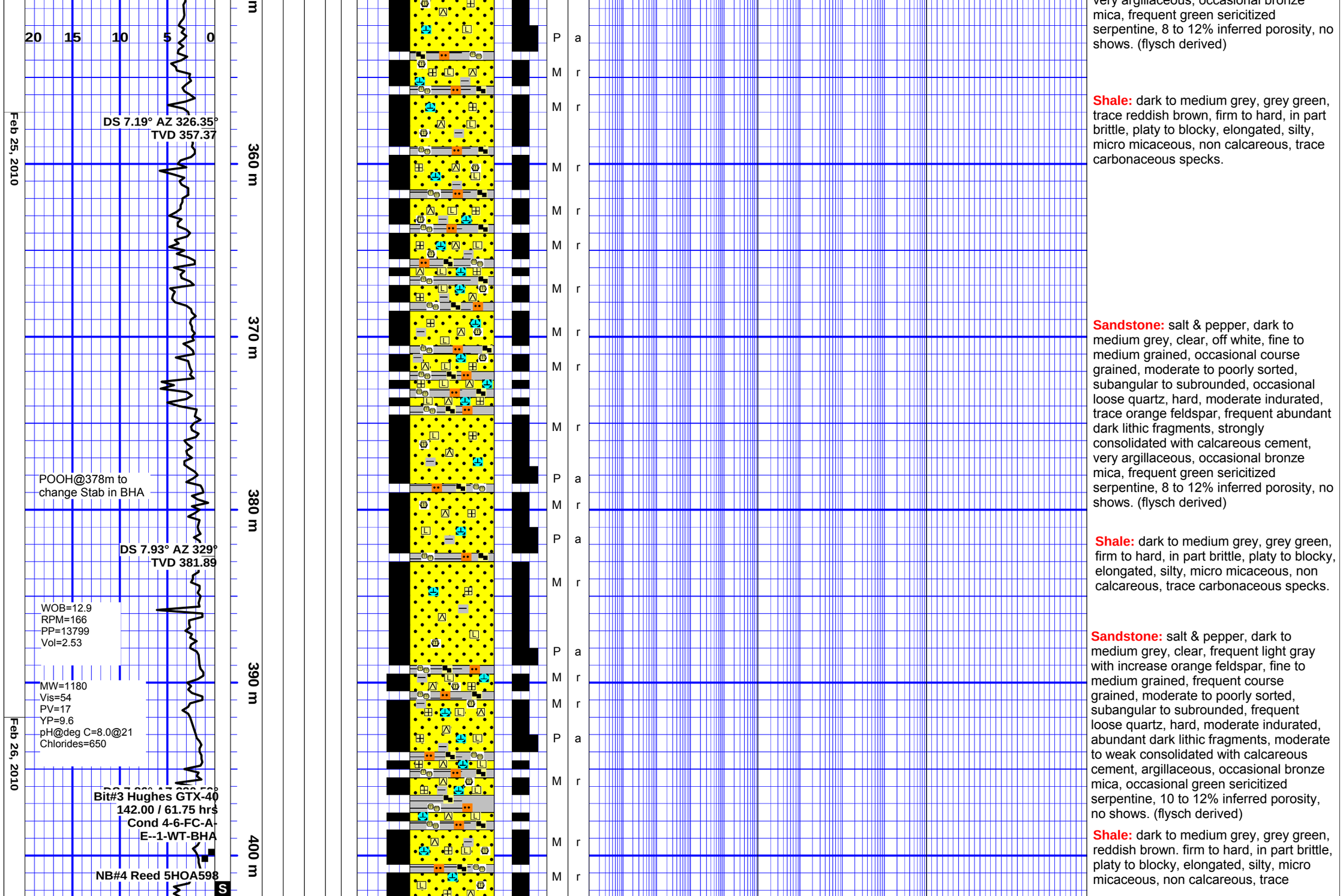
Sandstone: salt & pepper, light to medium grey, clear, off white, fine to medium graine occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, occasional orange feldspar, frequent dark lithic fragments, weak consolidated with calcareous cement, occasional bronze mica, trace green sericitized serpentine, 8 to 12% inferred porosity, no shows.

Shale: dark to medium grey, grey green, fi to hard, in part brittle, platy to blocky, silty, micro micaceous non calcareous.

Sandstone: salt & pepper, dark to mediun grey, clear, off white, fine to medium graine occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard to firm, slightly indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated w calcareous cement, occasional bronze mic trace green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derivec


Feb 20, 2004
DS 3.39° AZ 329.54
TVD 247.19
20
15
10
5
0
Bit#2 Smith G15BODCPS
56.00 / 32.25 hrs
Cond 4-4-FC-A-
-E-2--BHA
NB#3 Hughes GTX-40
Feb 21, 2010
POOH @ 258m & discovered
24m Fish in Hole. RIH &
retrieve fishing assembly after
2 attempts 2010-02-23
MW=1150
Vis=46
PV=13
YP=3.8
pH@deg C=8.0@20
Chlorides=600
Feb 23, 2010
WOB=10.9
RPM=37
250 m
260 m
270 m
280 m
290 m
M r
P a
Shale: dark to medium grey, grey green, fi
to hard, in part brittle, platy to blocky,
elongated, silty, micro micaceous non
calcareous, trace carbonaceous specks,
trace slickenside.
Sandstone: salt & pepper, light to medium
grey, clear, off white, fine to medium graine
frequent course grained, moderate to poor
sorted, subangular to subrounded, mainly
loose quartz, hard to firm, slightly indurate
abundant orange feldspar, frequent dark lit
fragments, weak consolidated with
calcareous cement, occasional bronze mic
trace green sericitized serpentine, occasio
light brown limestone fragments, 8 to 12%
inferred porosity, no shows. (flysch derive
Shale: dark to medium grey, grey green, fi
to hard, in part brittle, platy to blocky,
elongated, silty, micro micaceous non
calcareous, trace carbonaceous specks.
Sandstone: salt & pepper, dark to medium
grey, clear, off white, fine to medium graine
occasional course grained, moderate to
poorly sorted, subangular to subrounded,
mainly loose quartz, hard, moderate
indurated, trace orange feldspar, frequent
dark lithic fragments, weak consolidated w
calcareous cement, occasional bronze mic
frequent green sericitized serpentine, 8 to
12% inferred porosity, no shows. (flysch
derived)
Shale: dark to medium grey, grey green, fi
to hard, in part brittle, platy to blocky,
elongated, silty, micro micaceous non
calcareous, trace carbonaceous specks.
Sandstone: salt & pepper, light to medium
grey, clear, off white, fine to medium graine
frequent course grained, moderate to poor
sorted, subangular to subrounded, mainly
loose quartz, hard to firm, slightly indurate
abundant orange feldspar, frequent dark lit
fragments, weak consolidated with
calcareous cement, occasional bronze mic
trace green sericitized serpentine, occasio
light brown limestone fragments, 10 to 12%
inferred porosity, no shows. (flysch derive


PP=13755
Vol=2.57
20
15
DS 4.69° AZ 331.41°
TVD 302.76
300 m
310 m
320 m
330 m
340 m
350
Feb 24, 2010
MW=1160
Vis=47
PV=13
YP=5.7
pH@deg C=8.5@21
Chlorides=600
POOH @ 342m to change out BHA & L/D Motor (failed bearings)
P a
M r
P a
M r
M r
P a
M r
P a
M r
P a
M r
M r
M r
M r
M r
P a
M r
P a
M r
Sandstone: salt & pepper, dark to medium grey, clear, off white, fine to medium graine occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated wit calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)
Shale: dark to medium grey, grey green, fi to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.
Sandstone: salt & pepper, dark to mediun grey, clear, off white, fine to medium graine occasional course grained, moderate to poorly sorted, subangular to subrounded, mainly loose quartz, hard, moderate indurated, trace orange feldspar, frequent dark lithic fragments, weak consolidated w calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)
Shale: dark to medium grey, grey green, fi to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous non calcareous, trace carbonaceous specks.
Sandstone: salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, frequent abundant dark lithic fragments, strongly consolidated with calcareous cement,



very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

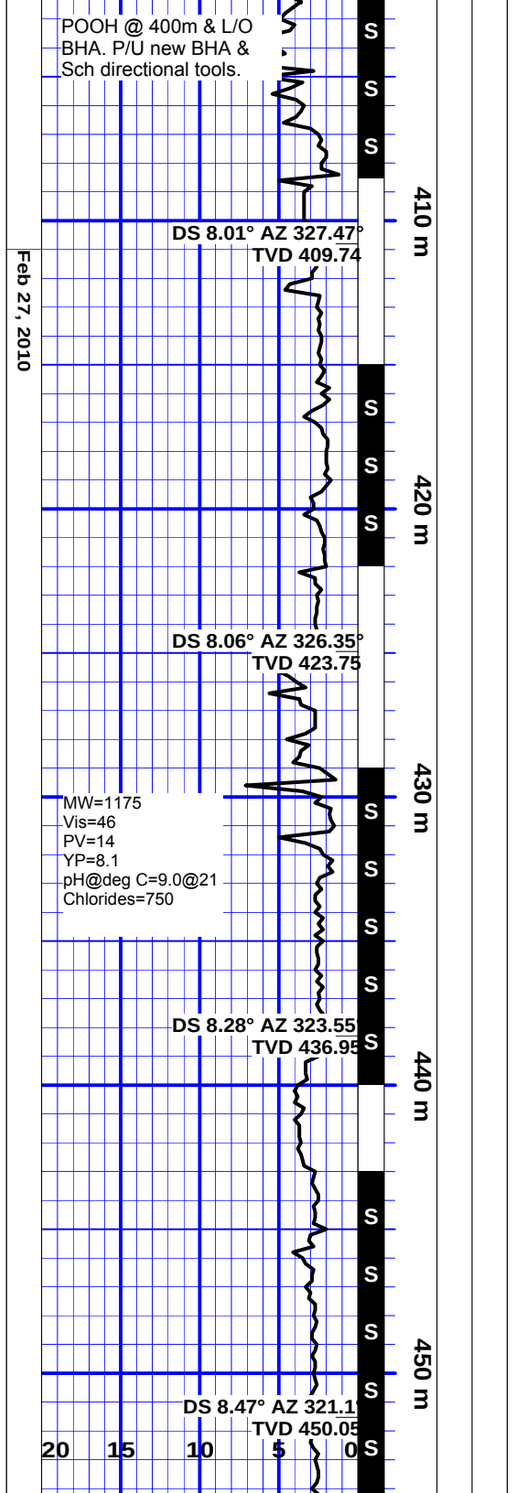
Shale: dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

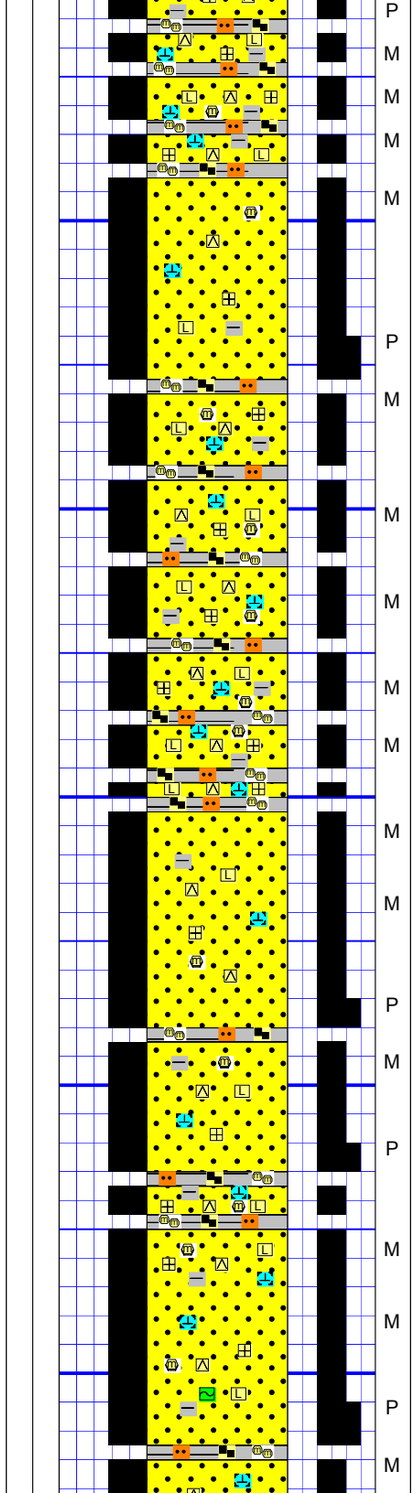
Sandstone: salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, frequent abundant dark lithic fragments, strongly consolidated with calcareous cement, very argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

Shale: dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Sandstone: salt & pepper, dark to medium grey, clear, frequent light gray with increase orange feldspar, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived)

Shale: dark to medium grey, grey green, reddish brown. firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace





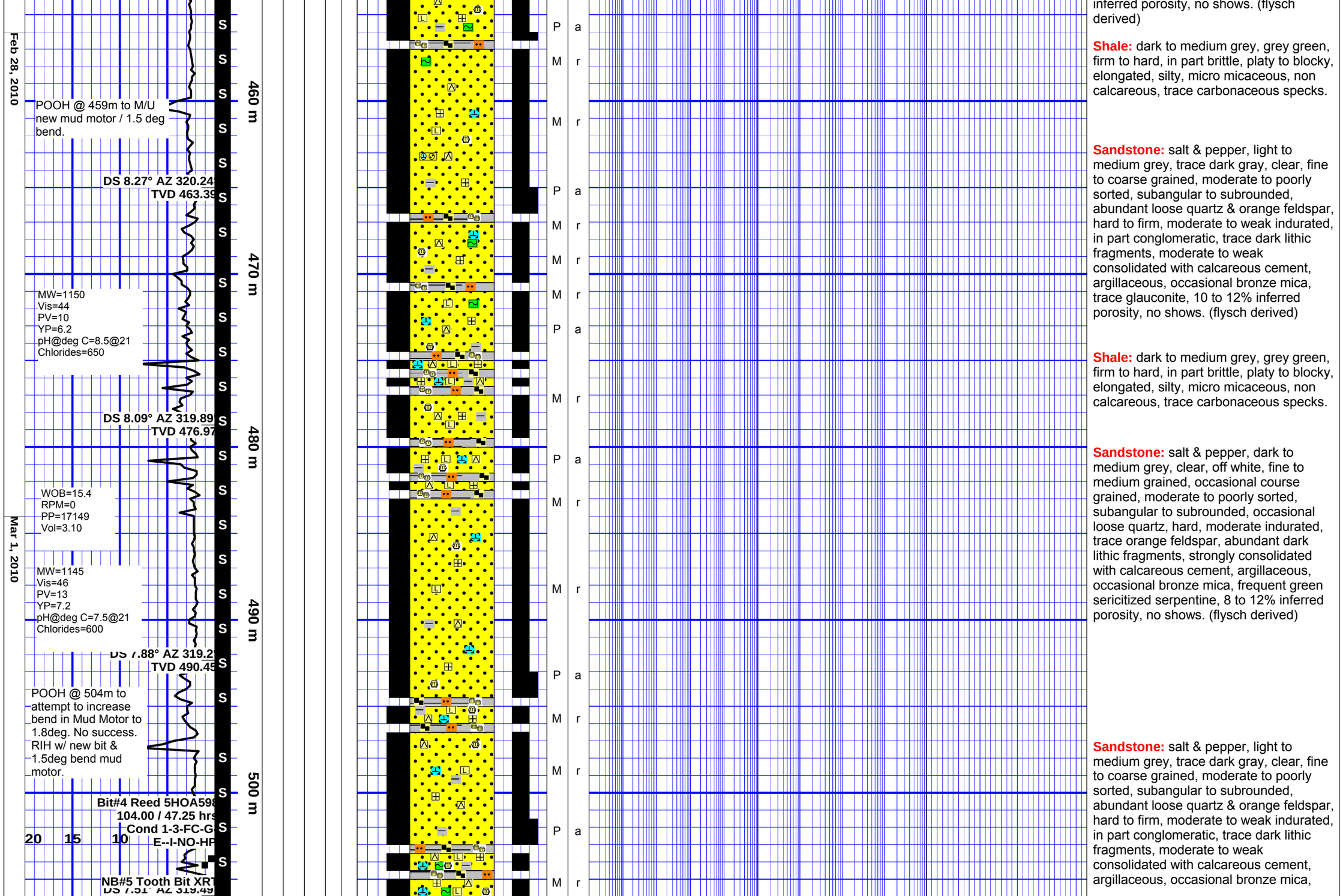
Sandstone: salt & pepper, light to medium grey, occasional dark gray, clear, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments & orange feldspar, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived)

Shale: dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Sandstone: salt & pepper, light to medium grey, occasional dark gray, clear, fine to medium grained, frequent course grained, moderate to poorly sorted, subangular to subrounded, frequent loose quartz, hard, moderate indurated, abundant dark lithic fragments & orange feldspar, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional green sericitized serpentine, 10 to 12% inferred porosity, no shows. (flysch derived)

Shale: dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Sandstone: salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12%



inferred porosity, no shows. (flysch derived)

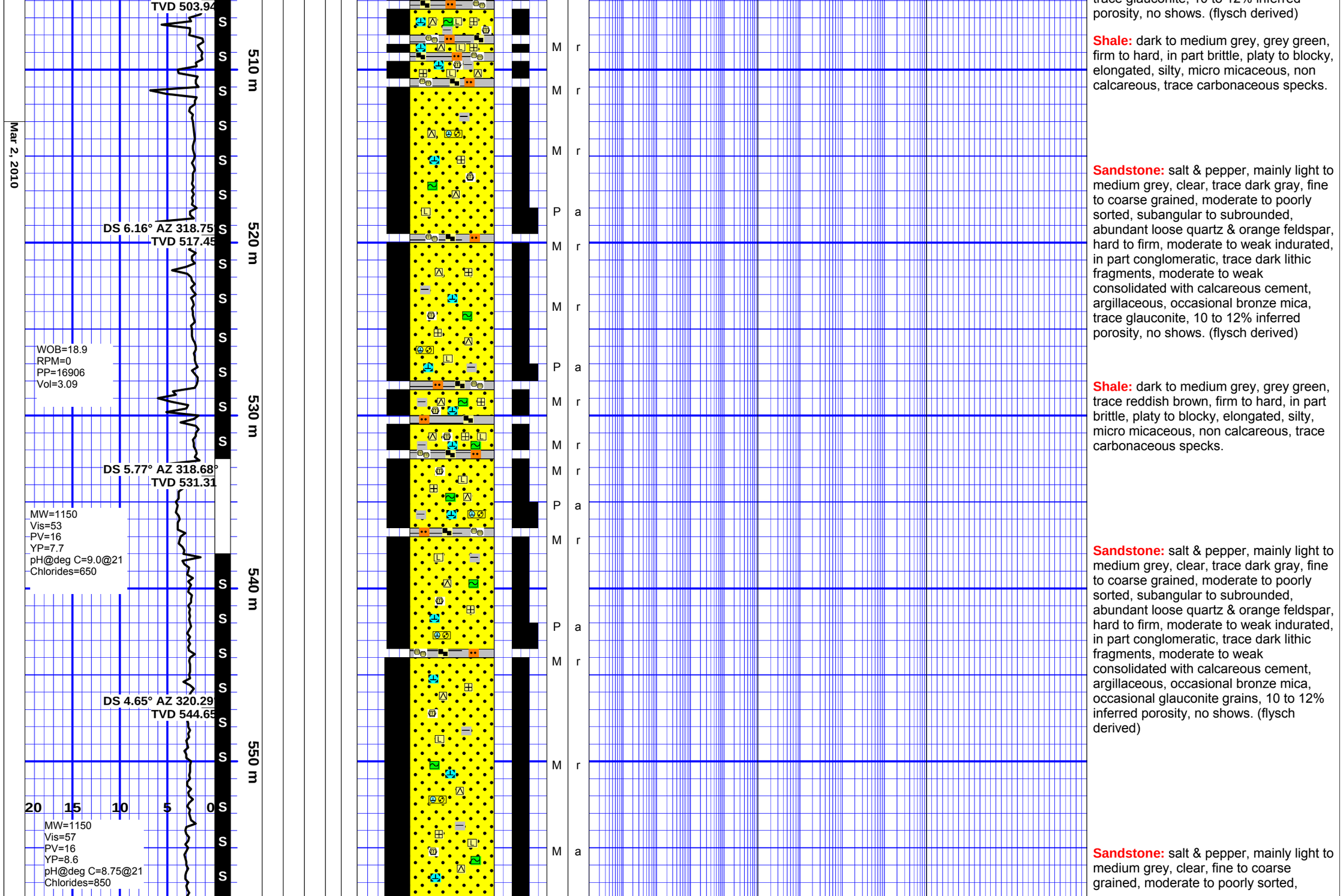
Shale: dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Sandstone: salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12% inferred porosity, no shows. (flysch derived)

Shale: dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Sandstone: salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)

Sandstone: salt & pepper, light to medium grey, trace dark gray, clear, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica,



porosity, no shows. (flysch derived)

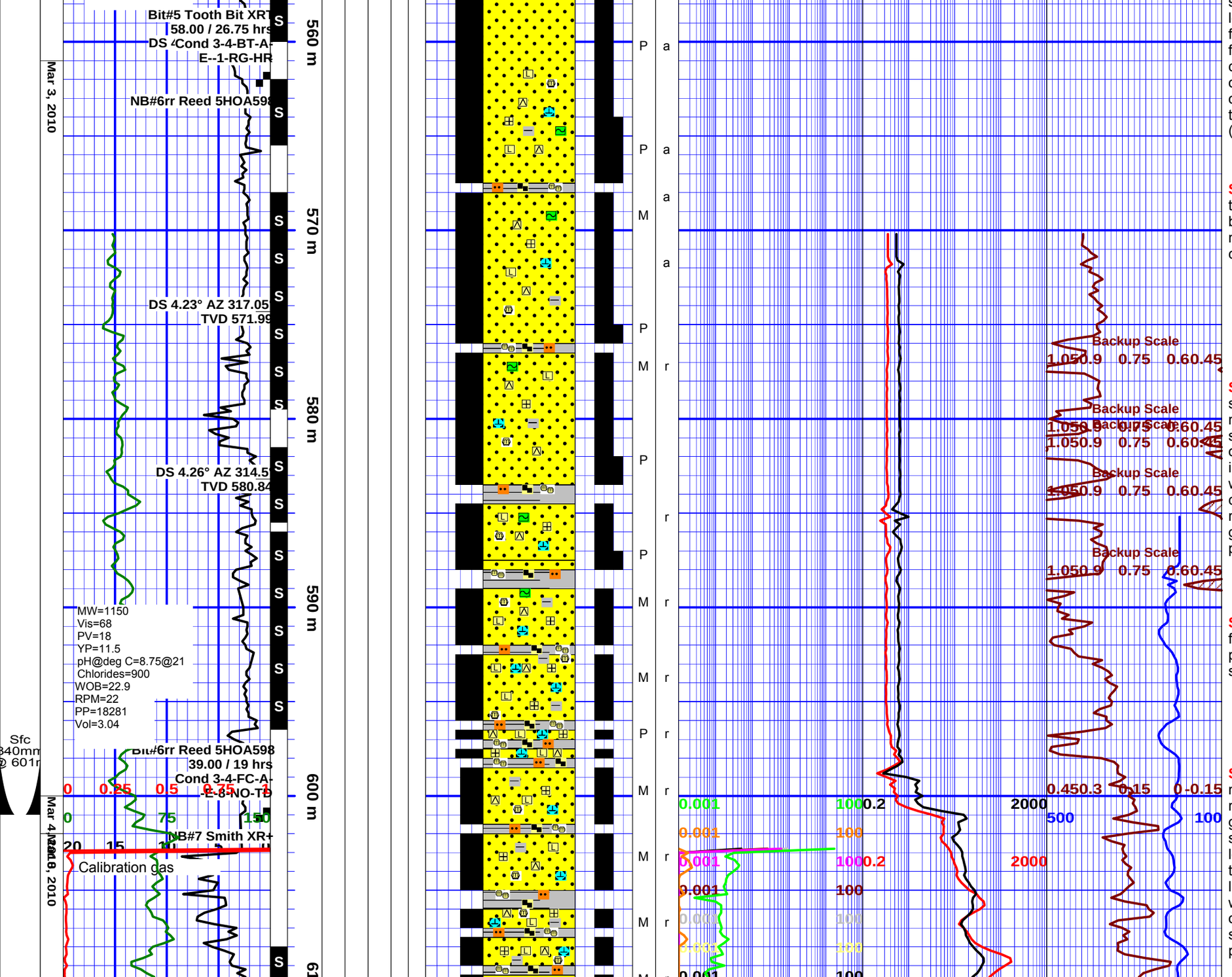
Shale: dark to medium grey, grey green, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Sandstone: salt & pepper, mainly light to medium grey, clear, trace dark gray, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, trace glauconite, 10 to 12% inferred porosity, no shows. (flysch derived)

Shale: dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Sandstone: salt & pepper, mainly light to medium grey, clear, trace dark gray, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, moderate to weak indurated, in part conglomeratic, trace dark lithic fragments, moderate to weak consolidated with calcareous cement, argillaceous, occasional bronze mica, occasional glauconite grains, 10 to 12% inferred porosity, no shows. (flysch derived)

Sandstone: salt & pepper, mainly light to medium grey, clear, fine to coarse grained, moderate to poorly sorted,



subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, weak indurated, trace dark lithic fragments, weak consolidated with calcareous cement, argillaceous, occasional bronze mica, minor quartz overgrowths, trace glauconite grains, 10 to 14% inferred porosity, no shows. (flysch derived)

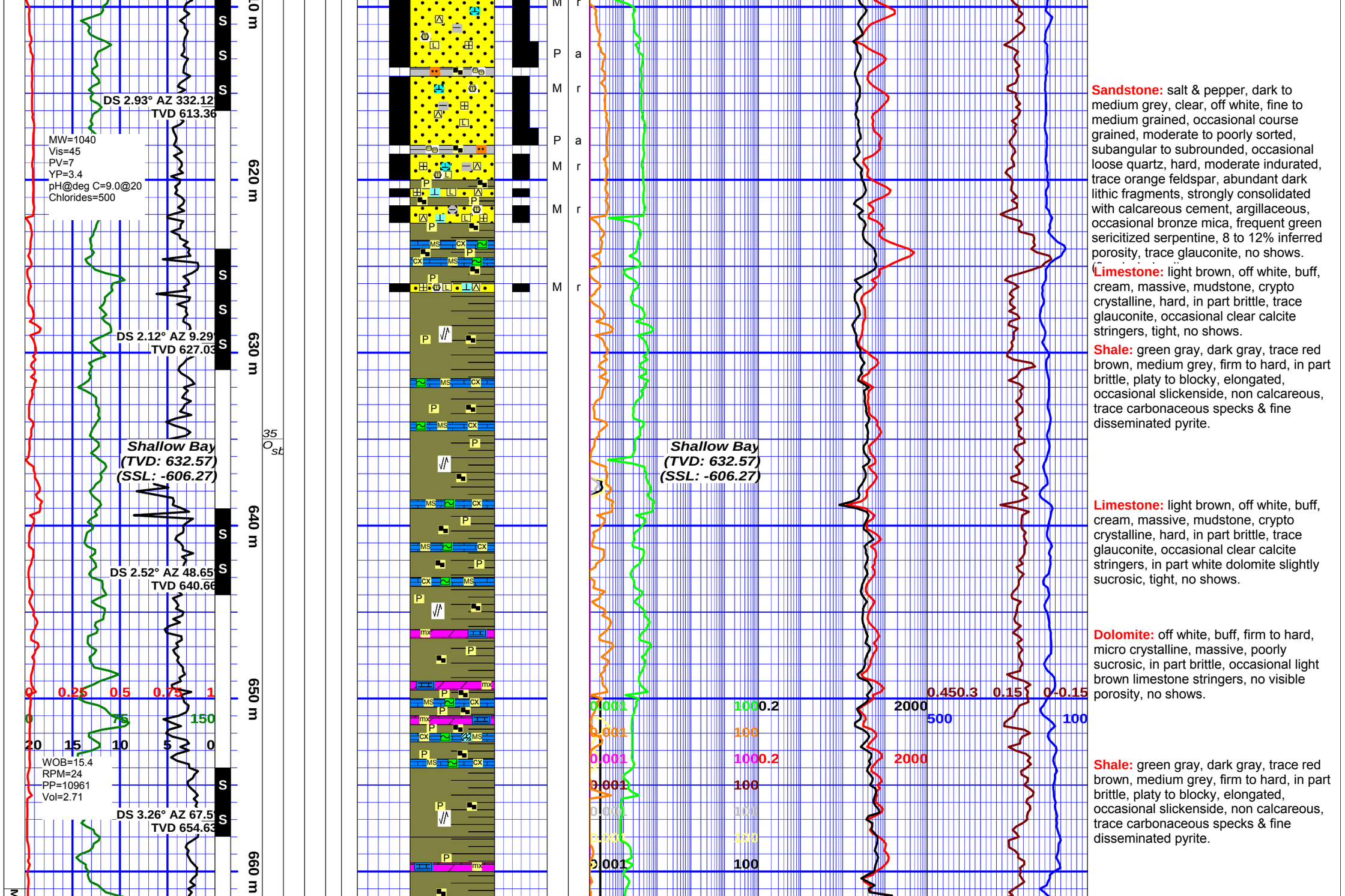
Shale: dark to medium grey, grey green, trace reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous, trace carbonaceous specks.

Sandstone: clear, light to medium gray, salt & pepper, fine to coarse grained, moderate to poorly sorted, subangular to subrounded, abundant loose quartz & orange feldspar, hard to firm, weak indurated, trace dark lithic fragments, weak consolidated with calcareous cement, argillaceous, occasional bronze mica, minor quartz overgrowths, trace glauconite grains, 10 to 14% inferred porosity, no shows. (flysch derived)

Shale: dark to medium grey, grey green, frequent reddish brown, firm to hard, in part brittle, platy to blocky, elongated, silty, micro micaceous, non calcareous.

Drilled to 601m @ 2010-03-05: 08:30. POOH to run 340mm surface casing.

Sandstone: salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, no shows. (flysch derived)



Sandstone: salt & pepper, dark to medium grey, clear, off white, fine to medium grained, occasional course grained, moderate to poorly sorted, subangular to subrounded, occasional loose quartz, hard, moderate indurated, trace orange feldspar, abundant dark lithic fragments, strongly consolidated with calcareous cement, argillaceous, occasional bronze mica, frequent green sericitized serpentine, 8 to 12% inferred porosity, trace glauconite, no shows.

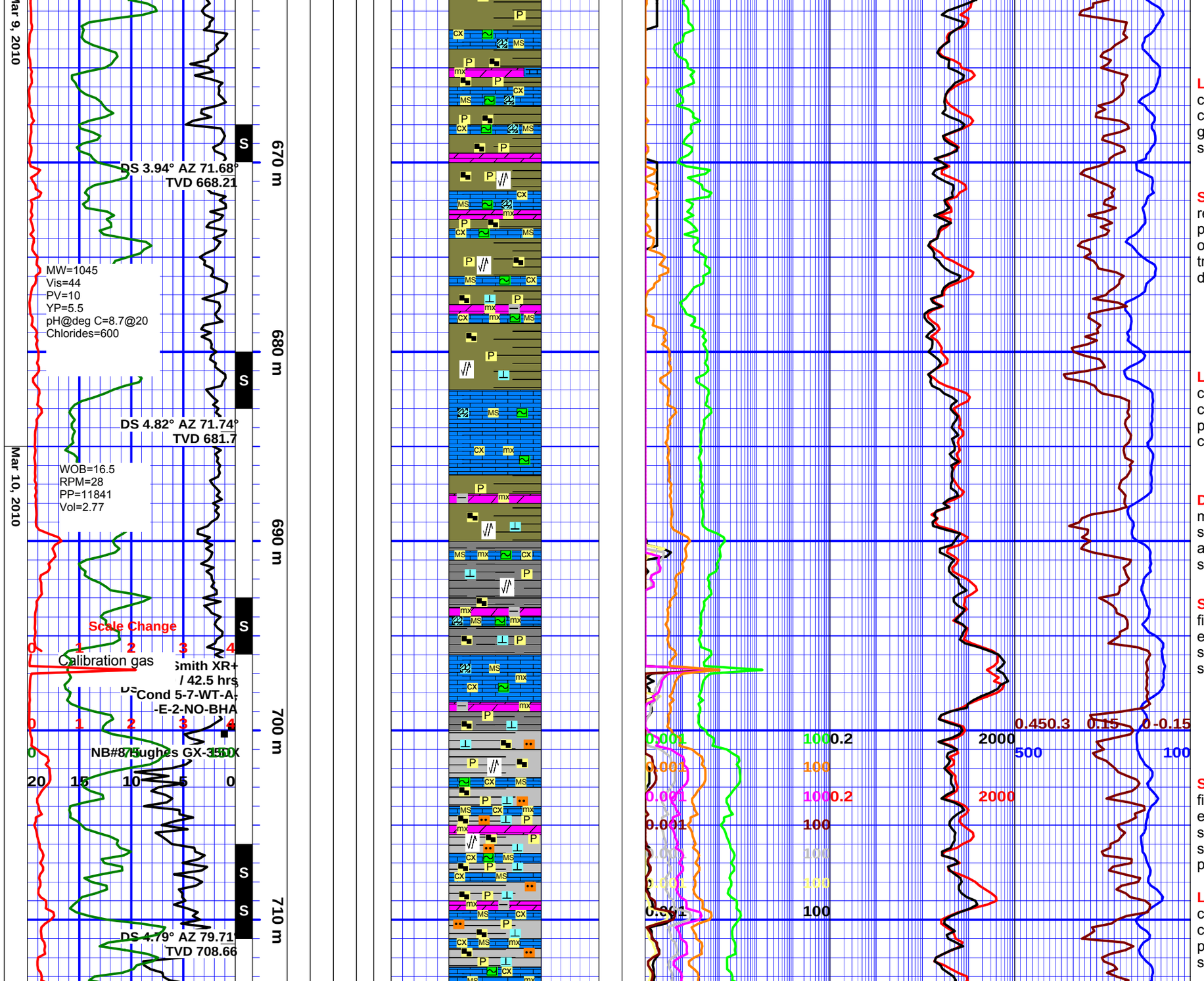
Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

Shale: green gray, dark gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, in part white dolomite slightly sucrosic, tight, no shows.

Dolomite: off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional light brown limestone stringers, no visible porosity, no shows.

Shale: green gray, dark gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.



POOH @663m: Motor Failure.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

Shale: green gray, dark gray, occasional red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks & fine disseminated pyrite.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, occasional clear calcite stringers, tight, no shows.

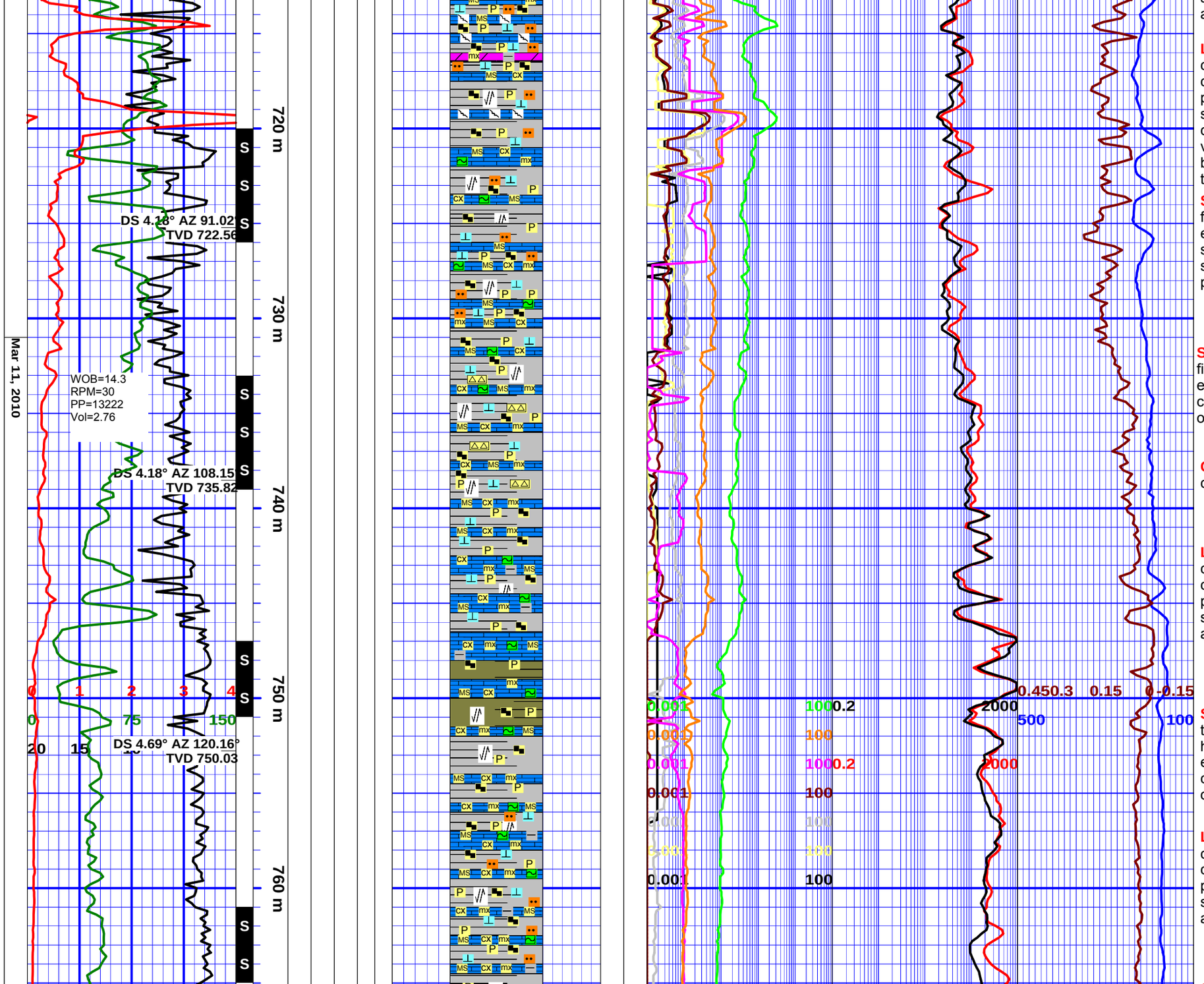
Dolomite: off white, buff, firm to hard, micro crystalline, massive, poorly sucrosic, in part brittle, occasional argillaceous, no visible porosity, no shows.

Shale: dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks & fine disseminated pyrite.

At 700m: POOH for New Bit & BHA

Shale: dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, occasional clear calcite



Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, frequent fractures with clear calcite stringers giving increase gas values up to 4.18% total gas, trace bitumen staining, slightly argillaceous, tight, no shows.

Shale: dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty.

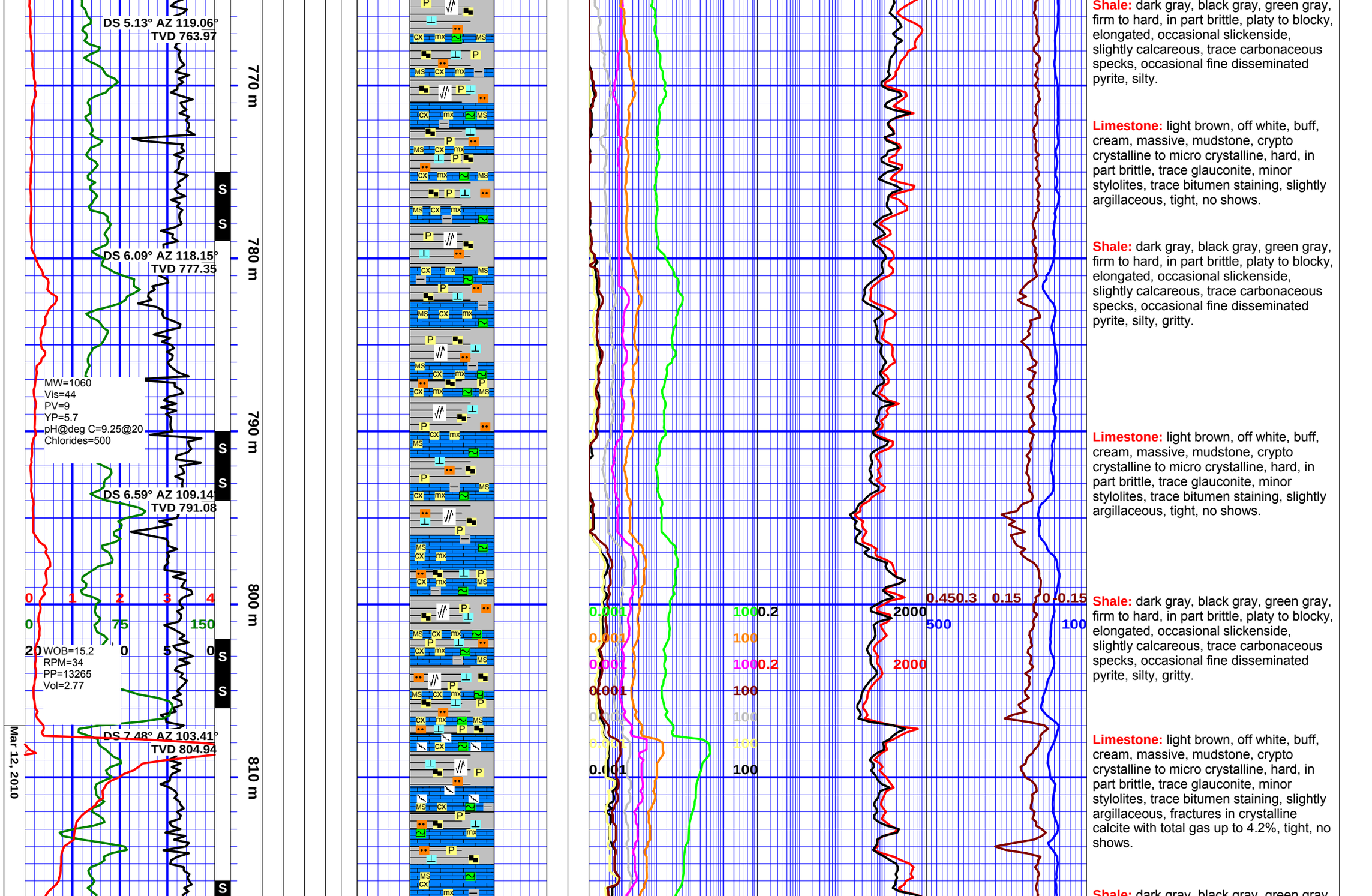
Shale: dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, frequent slickenside, slightly calcareous, trace carbonaceous specks occasional fine disseminated pyrite, silty.

Chert: light gray brown, very hard, brittle, conchoidal break,

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

Shale: green gray, dark gray, black gray, trace red brown, medium grey, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, non calcareous, trace carbonaceous specks, occasional fine disseminated pyrite.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.



Shale: dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

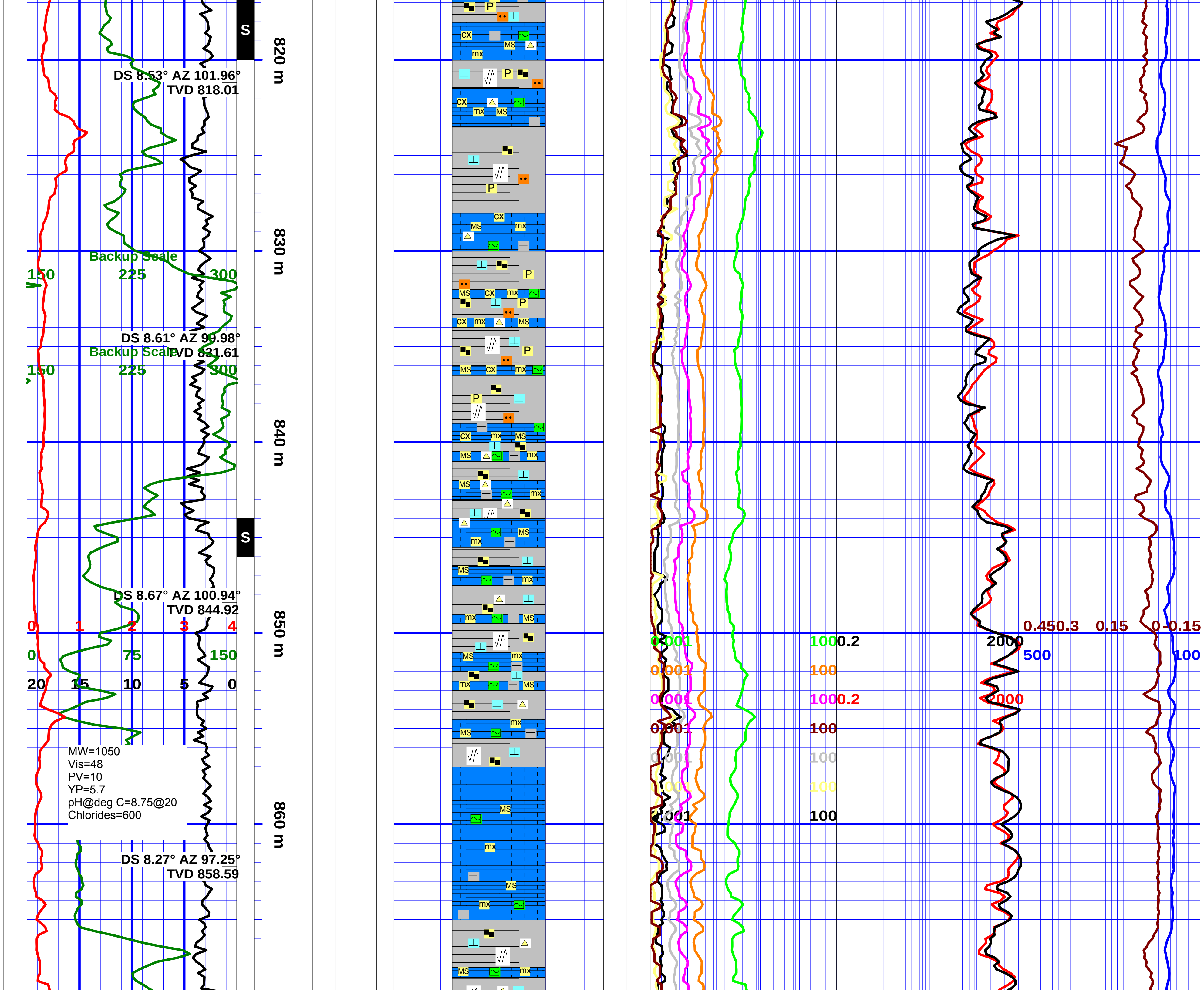
Shale: dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, tight, no shows.

Shale: dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, slightly argillaceous, fractures in crystalline calcite with total gas up to 4.2%, tight, no shows.

Shale: dark gray, black gray, green gray,



Shale: dark gray, black gray, green gray, firm to hard, in part brittle, platy to blocky, elongated, occasional slickenside, slightly calcareous, trace carbonaceous specks, occasional fine disseminated pyrite, silty, gritty, trace sandstone.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline to micro crystalline, hard, in part brittle, trace glauconite, minor stylolites, trace bitumen staining, common chert, slightly argillaceous, tight, no shows.

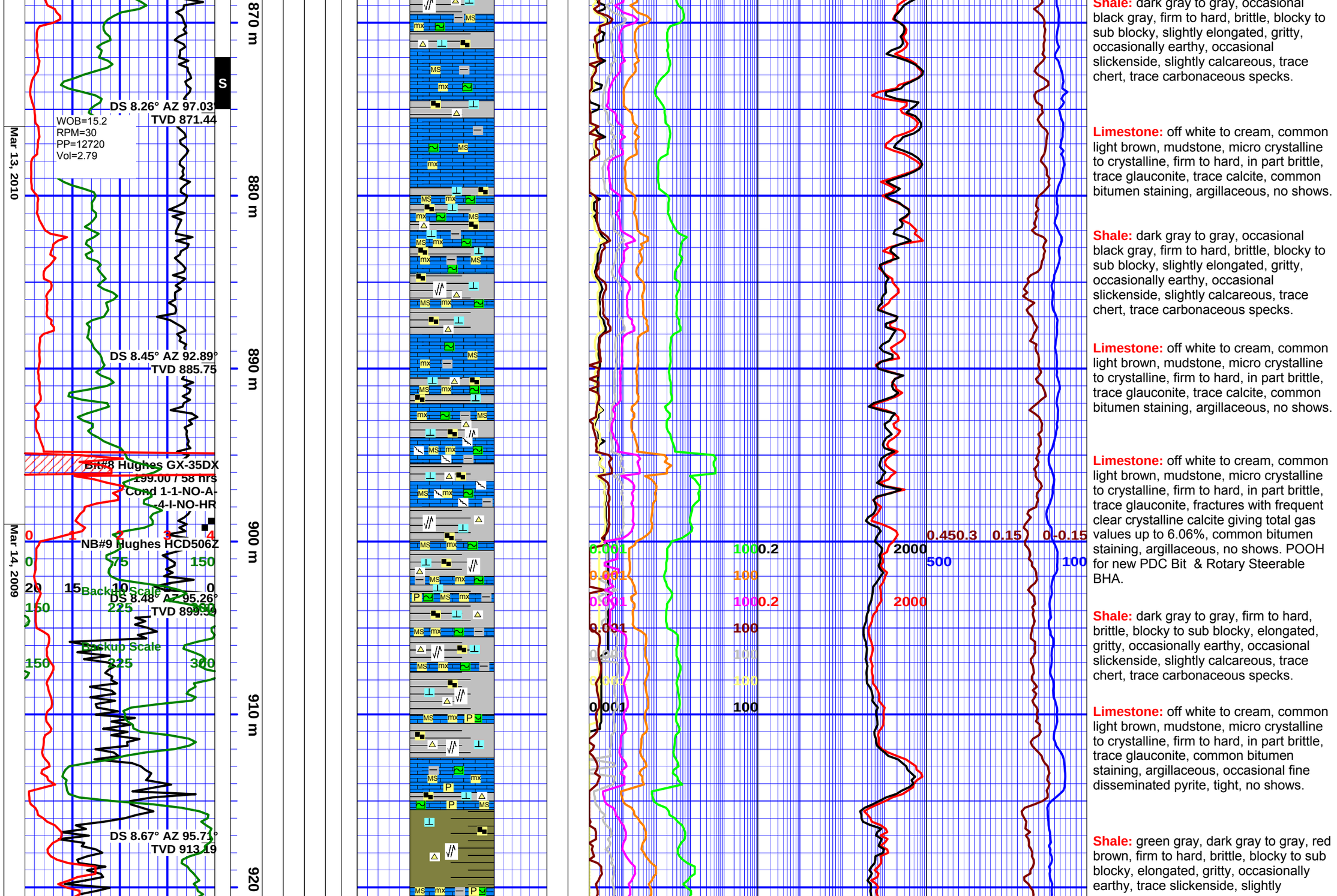
Shale: dark gray to gray, occasional black gray firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace carbonaceous specks, trace pyrite.

Limestone: light brown, off white, cream, mudstone, micro crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, occasional chert specks, argillaceous, no shows.

Shale: dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, no shows.

Shale: dark gray to gray, occasional



Shale: dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, trace calcite, common bitumen staining, argillaceous, no shows.

Shale: dark gray to gray, occasional black gray, firm to hard, brittle, blocky to sub blocky, slightly elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

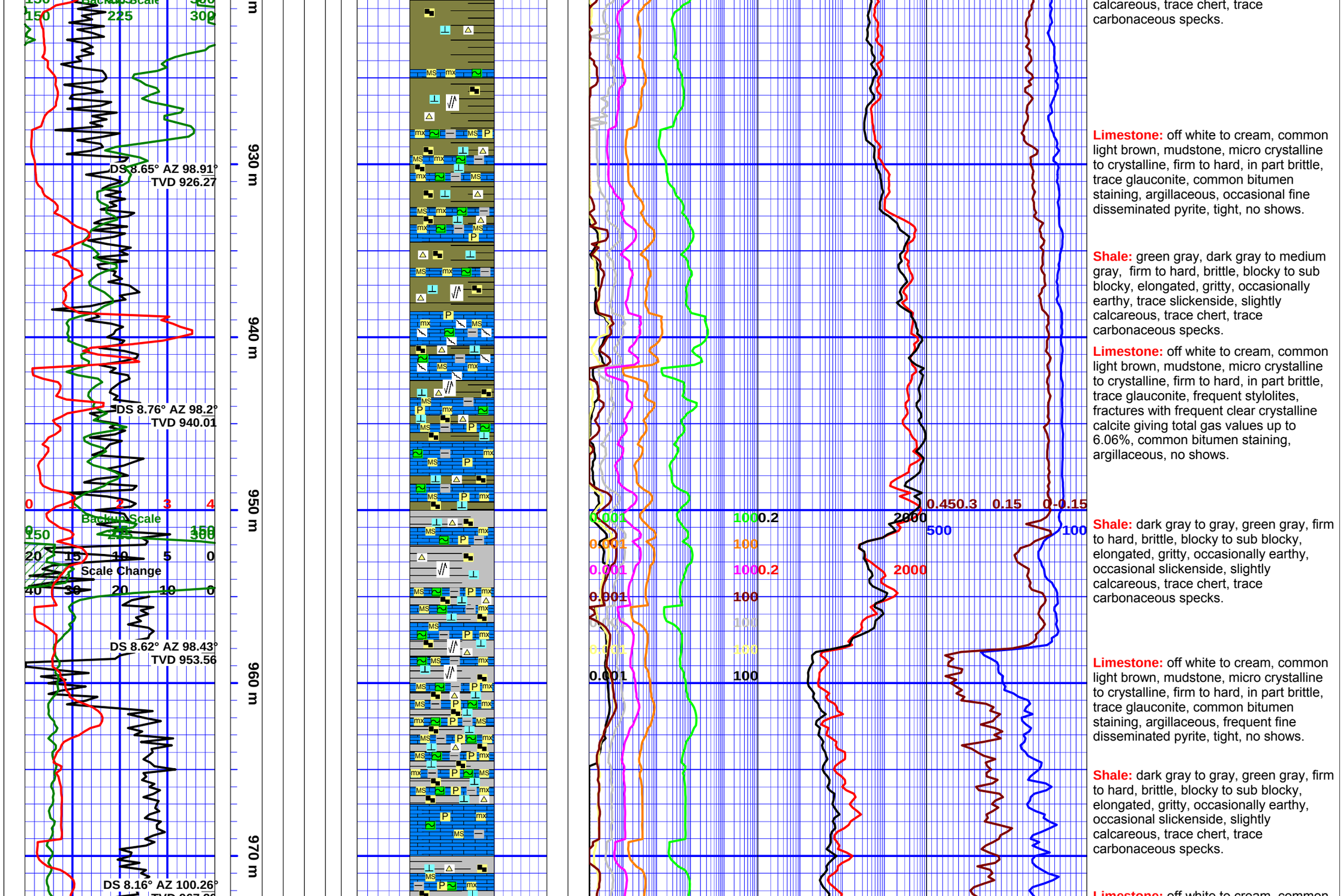
Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, trace calcite, common bitumen staining, argillaceous, no shows.

Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, fractures with frequent clear crystalline calcite giving total gas values up to 6.06%, common bitumen staining, argillaceous, no shows. POOH for new PDC Bit & Rotary Steerable BHA.

Shale: dark gray to gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.

Shale: green gray, dark gray to gray, red brown, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, trace slickenside, slightly



calcareous, trace chert, trace carbonaceous specks.

Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, occasional fine disseminated pyrite, tight, no shows.

Shale: green gray, dark gray to medium gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, trace slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

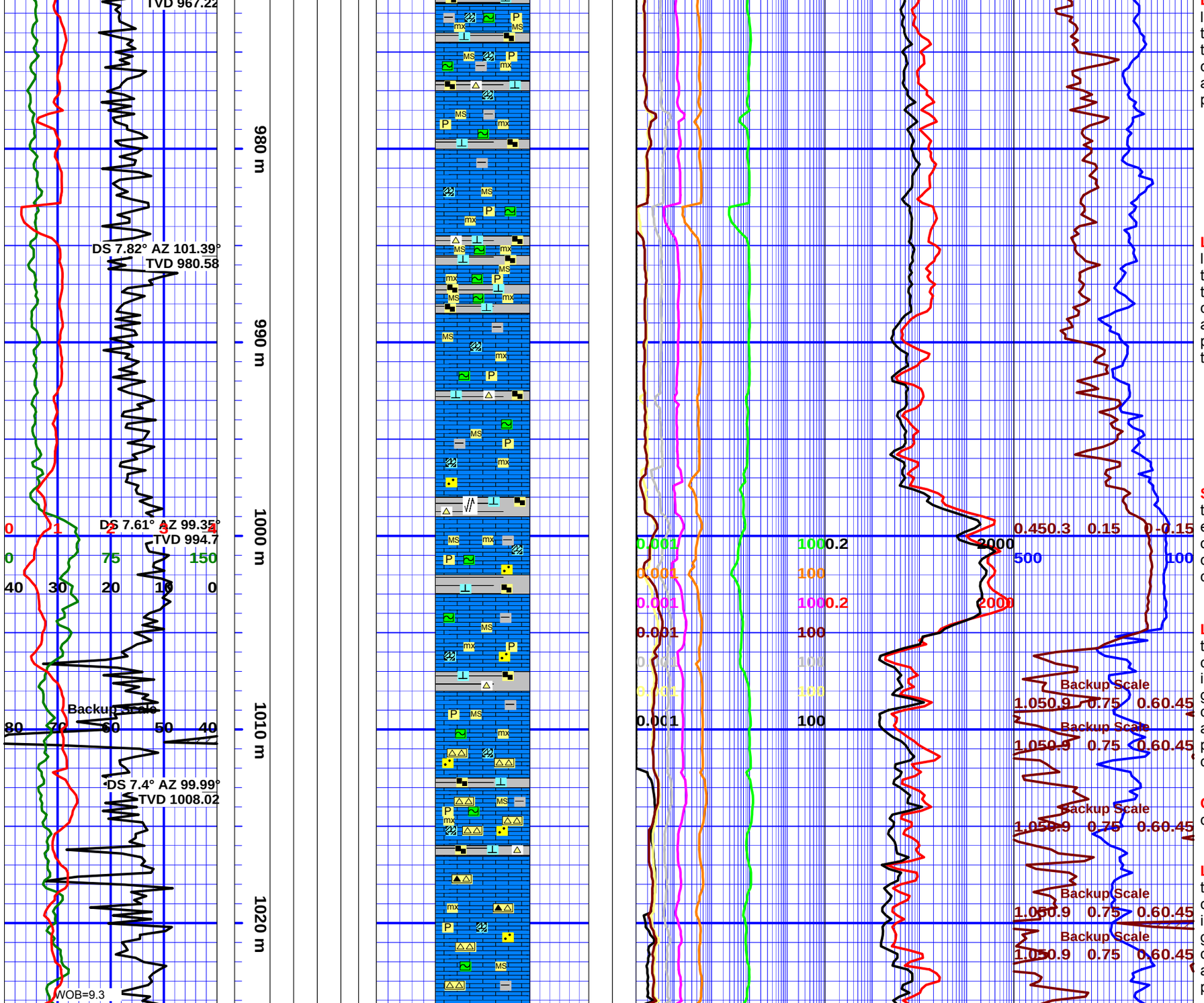
Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, frequent stylolites, fractures with frequent clear crystalline calcite giving total gas values up to 6.06%, common bitumen staining, argillaceous, no shows.

Shale: dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to hard, in part brittle, trace glauconite, common bitumen staining, argillaceous, frequent fine disseminated pyrite, tight, no shows.

Shale: dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

Limestone: off white to cream, common



Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to soft, in part brittle, trace glauconite, abundant crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite, tight, no shows.

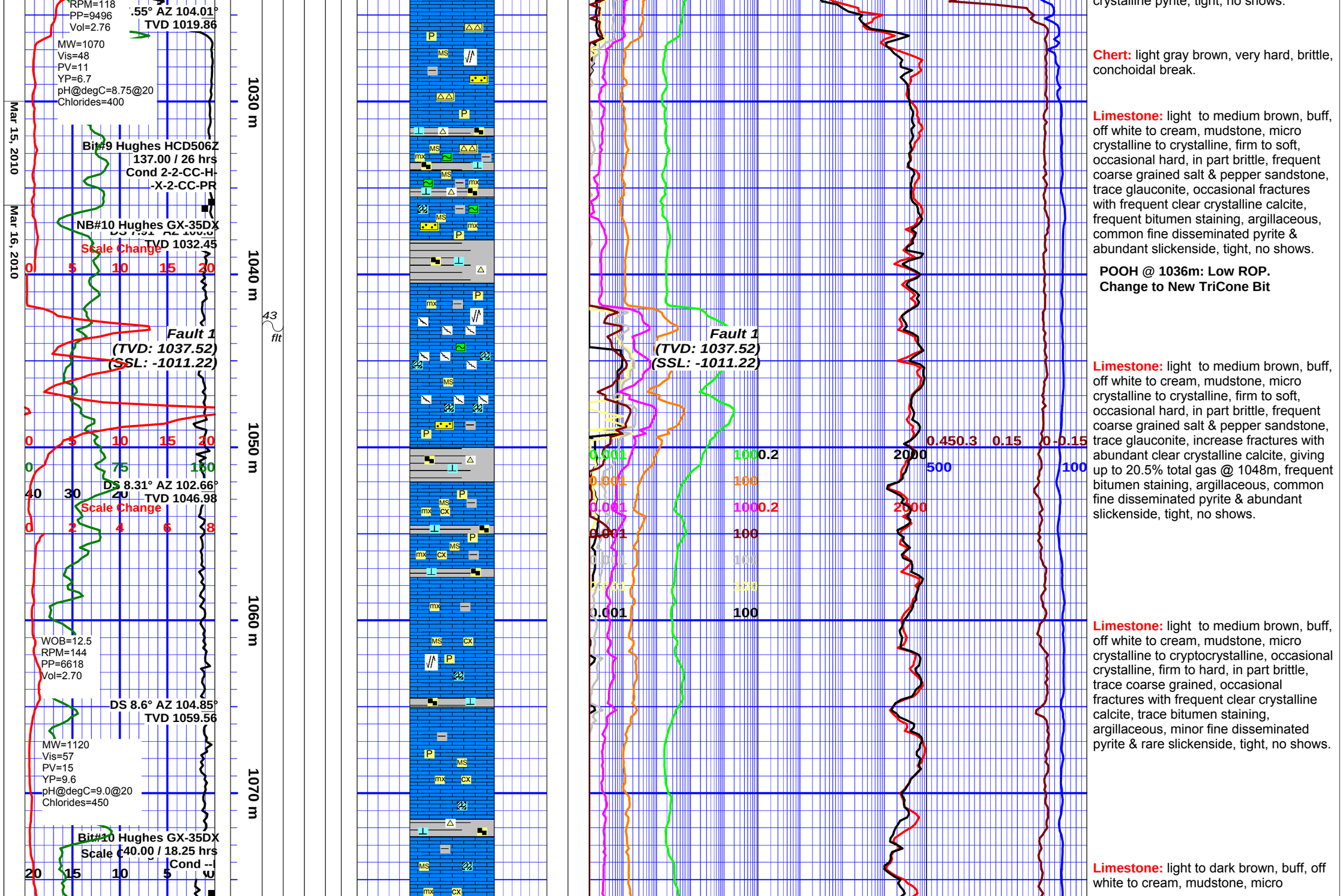
Limestone: off white to cream, common light brown, mudstone, micro crystalline to crystalline, firm to soft, in part brittle, trace glauconite, abundant crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & occasional crystalline pyrite, tight, no shows.

Shale: dark gray to gray, green gray, firm to hard, brittle, blocky to sub blocky, elongated, gritty, occasionally earthy, occasional slickenside, slightly calcareous, trace chert, trace carbonaceous specks.

Limestone: light -m brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, minor sandy, trace glauconite, abundant clear crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & minor slickenside, occasional crystalline pyrite, tight, no shows.

Chert: light gray brown, very hard, brittle, conchoidal break,

Limestone: light -m brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, minor sandy, trace glauconite, abundant clear crystalline calcite with frequent bitumen staining, argillaceous, frequent fine disseminated pyrite & minor slickenside, occasional



crystalline pyrite, tight, no shows.

Chert: light gray brown, very hard, brittle, conchoidal break.

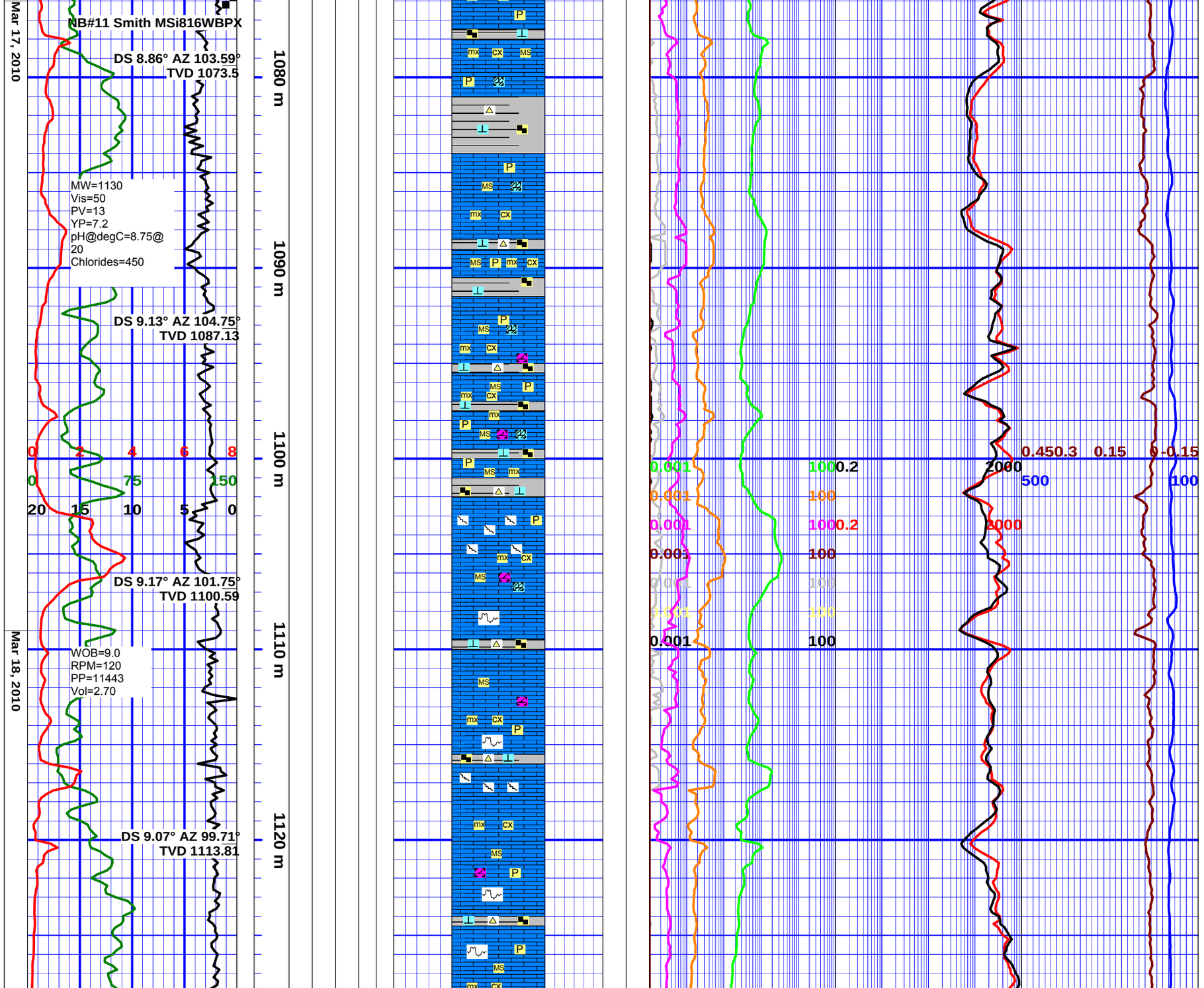
Limestone: light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, occasional fractures with frequent clear crystalline calcite, frequent bitumen staining, argillaceous, common fine disseminated pyrite & abundant slickenside, tight, no shows.

POOH @ 1036m: Low ROP.
Change to New TriCone Bit

Limestone: light to medium brown, buff, off white to cream, mudstone, micro crystalline to crystalline, firm to soft, occasional hard, in part brittle, frequent coarse grained salt & pepper sandstone, trace glauconite, increase fractures with abundant clear crystalline calcite, giving up to 20.5% total gas @ 1048m, frequent bitumen staining, argillaceous, common fine disseminated pyrite & abundant slickenside, tight, no shows.

Limestone: light to medium brown, buff, off white to cream, mudstone, micro crystalline to cryptocrystalline, occasional crystalline, firm to hard, in part brittle, trace coarse grained, occasional fractures with frequent clear crystalline calcite, trace bitumen staining, argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows.

Limestone: light to dark brown, buff, off white to cream, mudstone, micro



crystalline to cryptocrystalline, occasional crystalline, hard to firm, frequent brittle, rare fractures with occasional clear crystalline calcite, trace bitumen staining, argillaceous, minor fine disseminated pyrite & rare slickenside, tight, no shows.

POOH to change to PDC Bit.

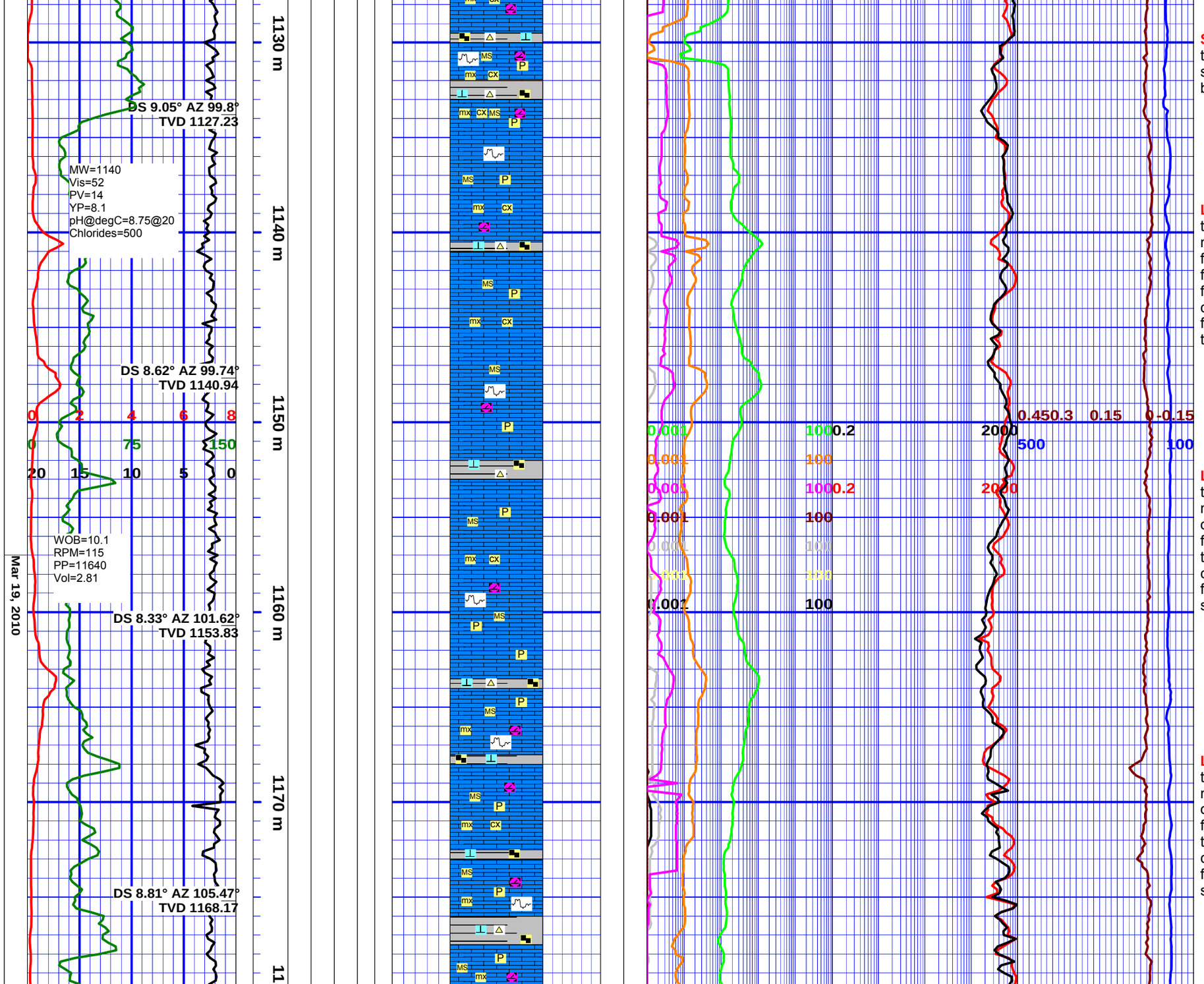
Shale: dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

Limestone: light to dark brown, buff, off white to cream, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, in part dolomitic, tight, no shows.

Shale: dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, minor chert, trace carbonaceous specks.

Limestone: buff, off white to cream, light to dark brown,mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, in part dolomitic, slightly sucrosic, minor fractures with occasional clear crystalline calcite giving TG=3.7% at 1104m, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, tight, no shows.

Limestone: buff, off white to cream, light to dark brown,mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, in part dolomitic, slightly sucrosic, minor fractures with occasional clear crystalline calcite giving TG=2.1% at 1116m, trace bitumen staining, frequent fine disseminated pyrite, frequent stylolites, tight, no shows.

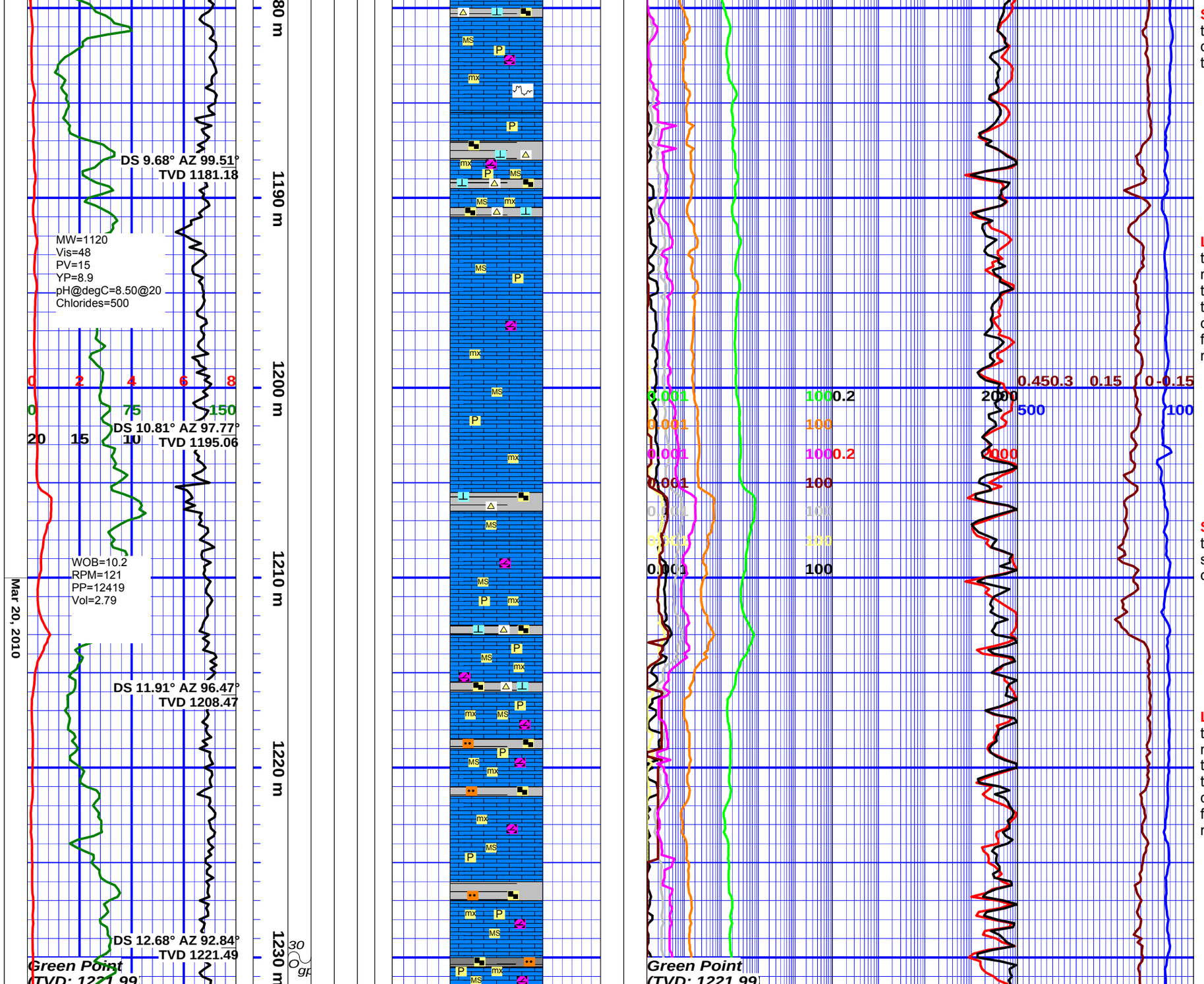


Shale: dark gray to gray, green gray, firm to hard, brittle, blocky to platy, gritty, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

Limestone: buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, frequent coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows.

Limestone: buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, occasional coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows.

Limestone: buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, occasional coarse crystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, trace bitumen staining, frequent fine disseminated pyrite, minor stylolites, tight, no shows.

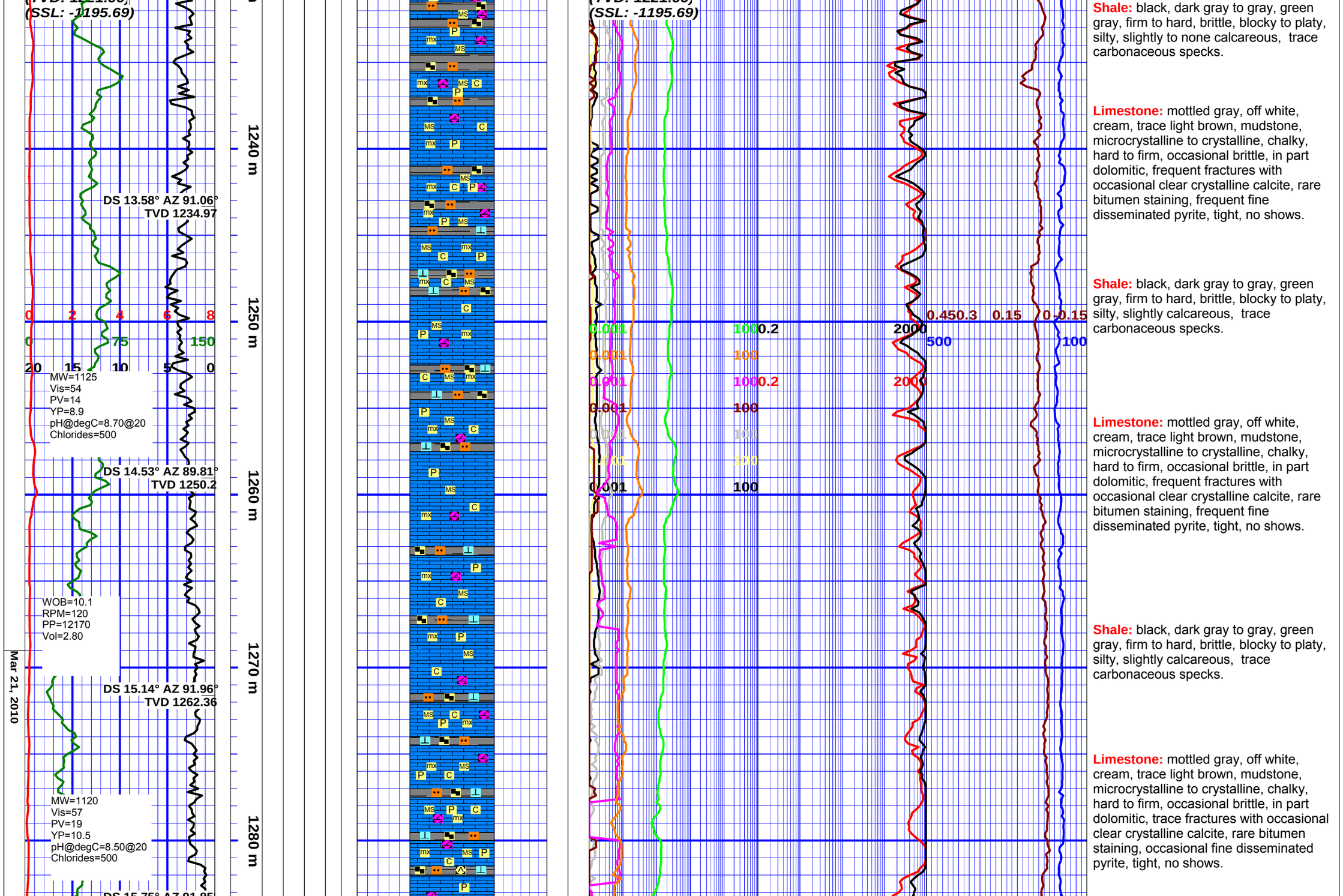


Shale: dark gray to gray, green gray, firm to hard, brittle, blocky to platy, slightly calcareous, occasional light brown chert, trace carbonaceous specks.

Limestone: buff, off white to cream, light to dark brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

Shale: dark gray to gray, green gray, firm to hard, brittle, blocky to platy, waxy, slightly calcareous, trace light brown chert, trace carbonaceous specks.

Limestone: buff, cream to off white, light to dark brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.



Shale: black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly to none calcareous, trace carbonaceous specks.

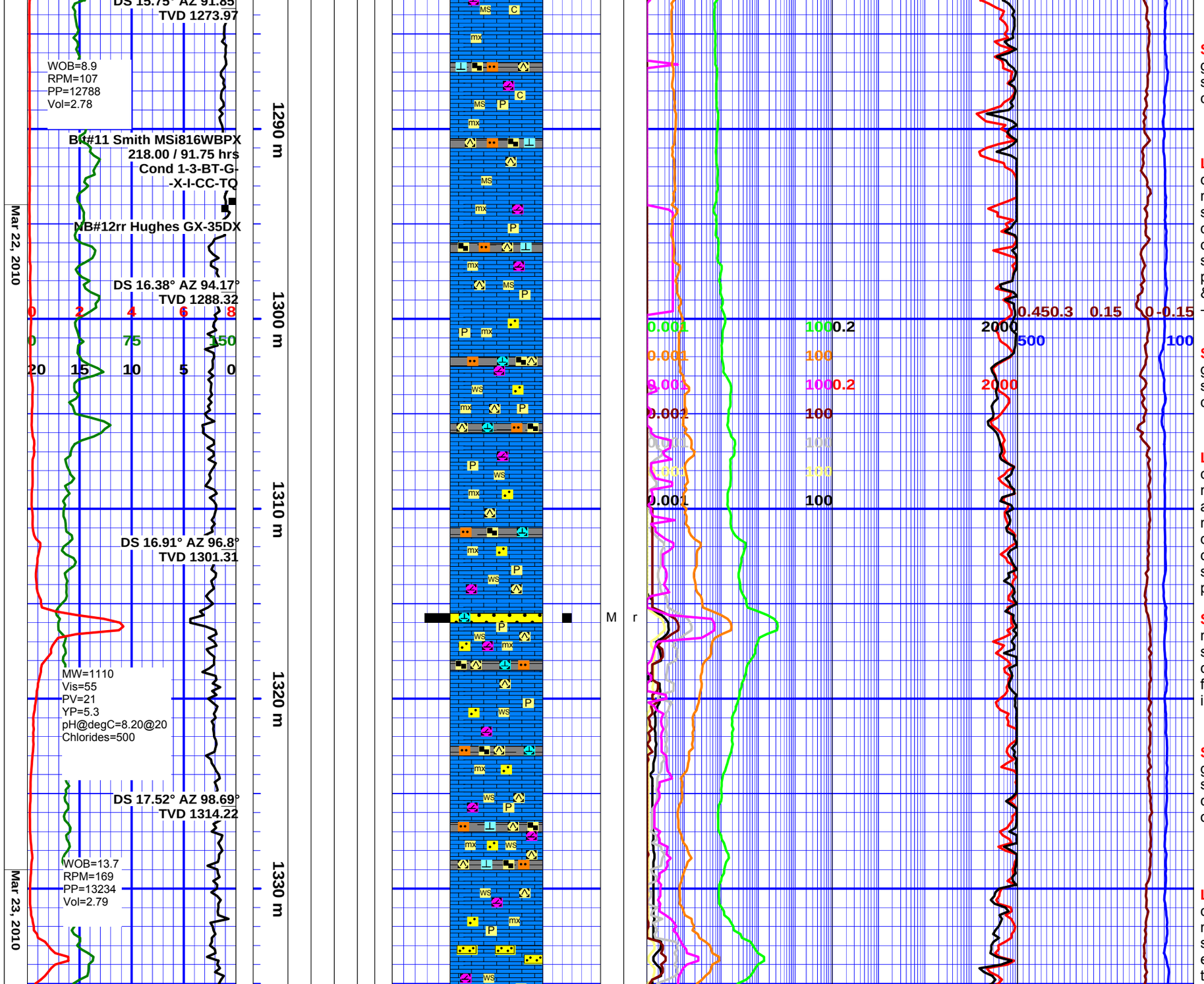
Limestone: mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, occasional brittle, in part dolomitic, frequent fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

Shale: black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous, trace carbonaceous specks.

Limestone: mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, occasional brittle, in part dolomitic, frequent fractures with occasional clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

Shale: black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous, trace carbonaceous specks.

Limestone: mottled gray, off white, cream, trace light brown, mudstone, microcrystalline to crystalline, chalky, hard to firm, occasional brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.



Shale: black, dark gray to gray, green gray, firm to hard, brittle, blocky to platy, silty, slightly calcareous & siliceous, trace carbonaceous specks.

Limestone: mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows. (Torque increase & ROP decrease) POOH & change to Tri - Cone Bit.

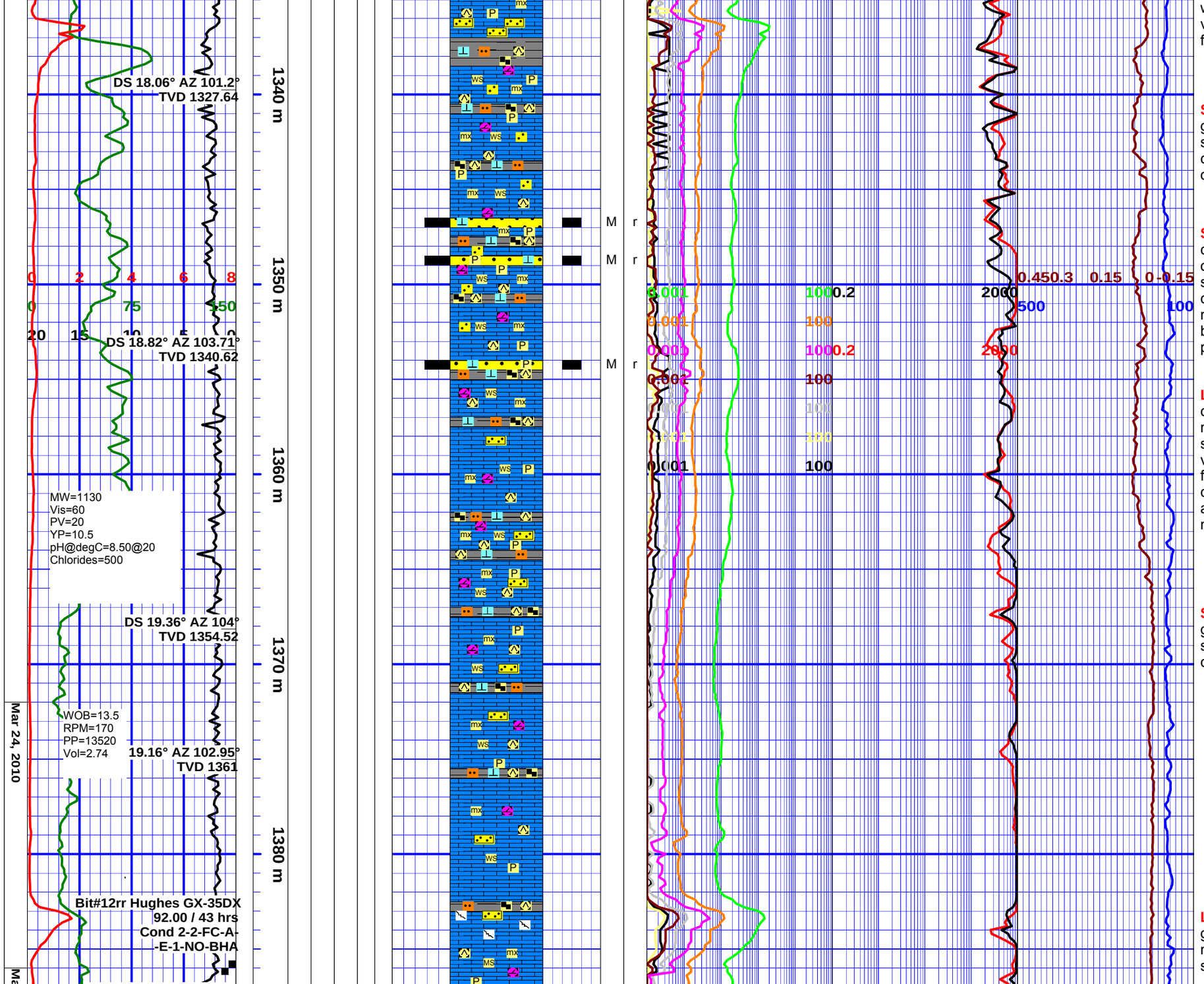
Shale: black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

Limestone: mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, sandy with abundant quartz eyes,frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

Sandstone: off white, light gray, clear, medium to coarse grained, moderate sorted, subangular to angular, consolidated with calcareous cement, frequent bitumen staining, 10 to 12% inferred porosity, no shows.

Shale: black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks, occasional slickenside.

Limestone: mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers with abundant quartz eyes, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures



with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

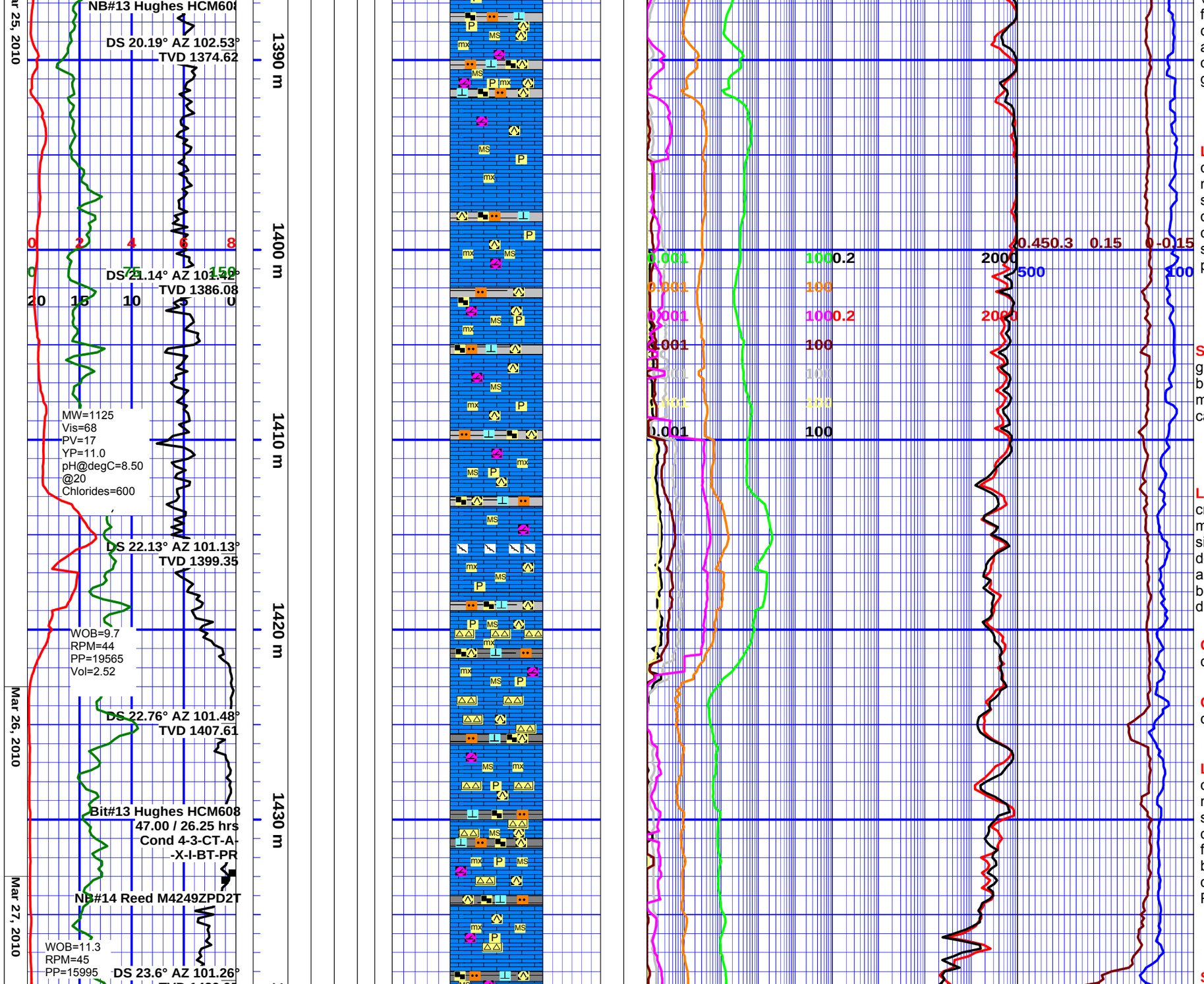
Shale: black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks, occasional slickenside.

Sandstone: salt & pepper, off white, clear, clear, fine to medium grained, occasional coarse grained, moderate sorted, subangular to angular, consolidated with calcareous cement, minor fine disseminated pyrite, frequent bitumen staining, 10 to 12% inferred porosity, no shows.

Limestone: mottled gray, off white, cream, light brown, packstone, microcrystalline to crystalline, occasional sand stringers, frequent siliceous matrix, very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

Shale: black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

Limestone: mottled gray, off white, dark gray, light brown, packstone, microcrystalline to crystalline, abundant siliceous matrix, occasional quartz eyes,



very hard to firm, brittle, in part dolomitic, fractures with frequent clear crystalline calcite veins, rare bitumen staining, abundant fine disseminated pyrite, occasional sandstone stringers with total gas up to 1.6%, tight, no shows.

Limestone: mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, trace fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

Shale: black, dark gray to gray, green gray, trace red brown, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

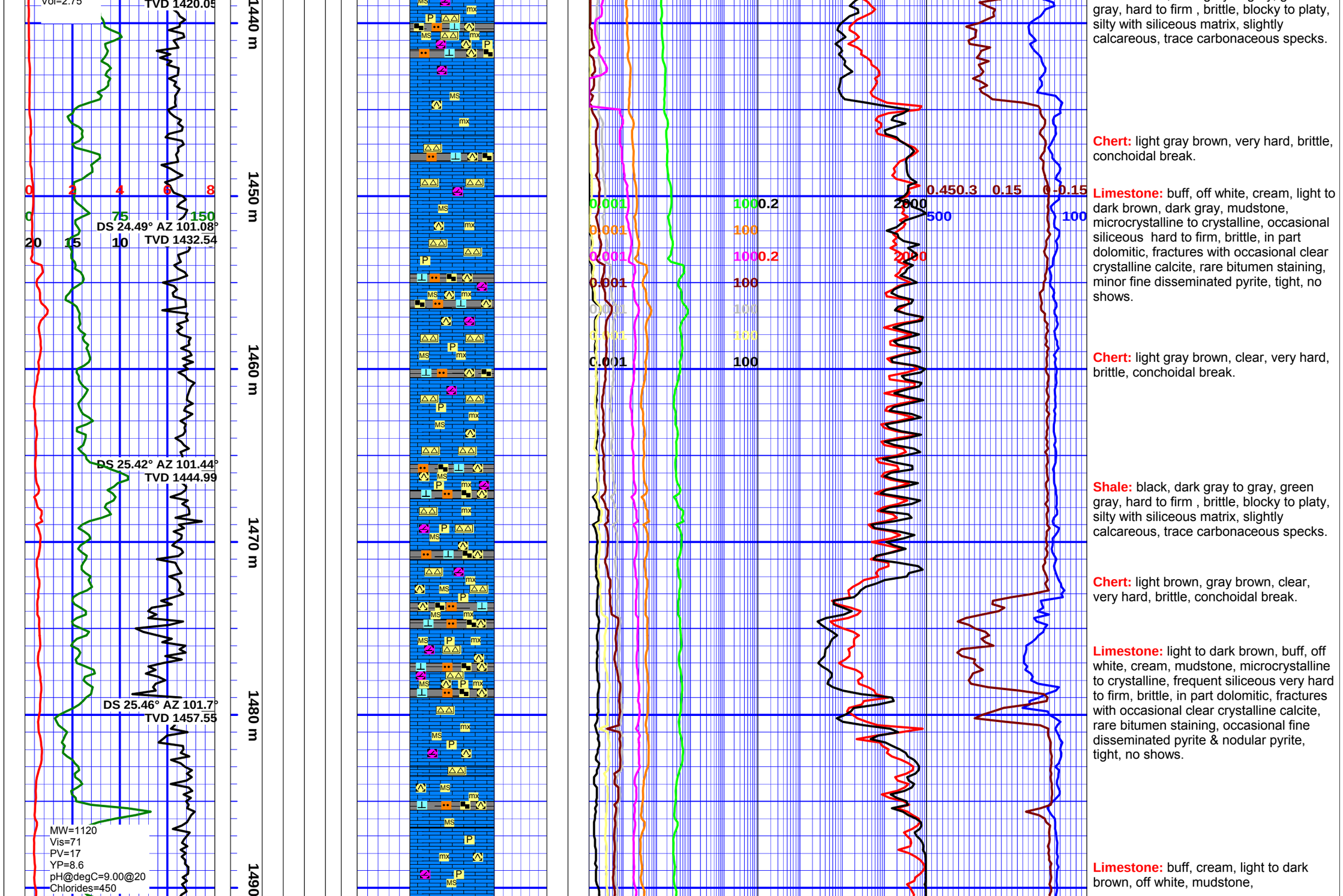
Limestone: mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, frequent fractures with abundant clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

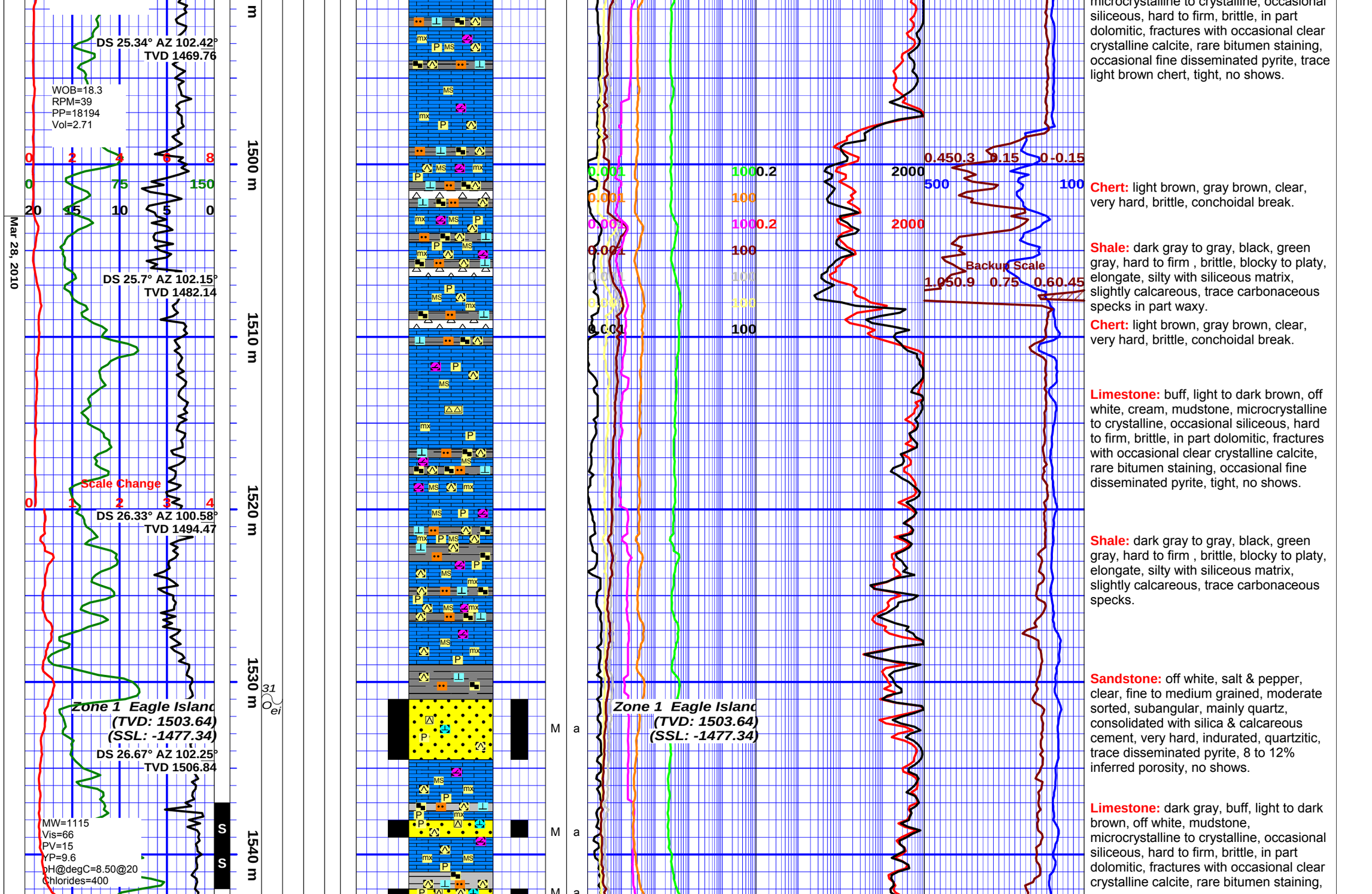
Chert: light gray brown, very hard, brittle, conchoidal break.

Chert: light gray brown, very hard, brittle, conchoidal break.

Limestone: mottled gray, off white, cream, light brown, dark gray, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, occasional fractures with frequent clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows. POOH @ 1433m for new Tri-Cone Bit.

Shale: black, dark gray to gray, green


Vol=2.75
TVD 1420.05
0 2 4 6 8
0 75 150
DS 24.49° AZ 101.08°
TVD 1432.54
20 15 10
DS 25.42° AZ 101.44°
TVD 1444.99
DS 25.46° AZ 101.7°
TVD 1457.55
MW=1120
Vis=71
PV=17
YP=8.6
pH@degC=9.00@20
Chlorides=450
1440 m
1450 m
1460 m
1470 m
1480 m
1490
MS
mx
P
0.001
100
1000.2
0.450.3 0.15 0-0.15
2000
500
100
Chert: light gray brown, very hard, brittle, conchoidal break.
Limestone: buff, off white, cream, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, occasional siliceous hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, minor fine disseminated pyrite, tight, no shows.
Chert: light gray brown, clear, very hard, brittle, conchoidal break.
Shale: black, dark gray to gray, green gray, hard to firm , brittle, blocky to platy, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.
Chert: light brown, gray brown, clear, very hard, brittle, conchoidal break.
Limestone: light to dark brown, buff, off white, cream, mudstone, microcrystalline to crystalline, frequent siliceous very hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite & nodular pyrite, tight, no shows.
Limestone: buff, cream, light to dark brown, off white, mudstone,



microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, trace light brown chert, tight, no shows.

Chert: light brown, gray brown, clear, very hard, brittle, conchoidal break.

Shale: dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks in part waxy.

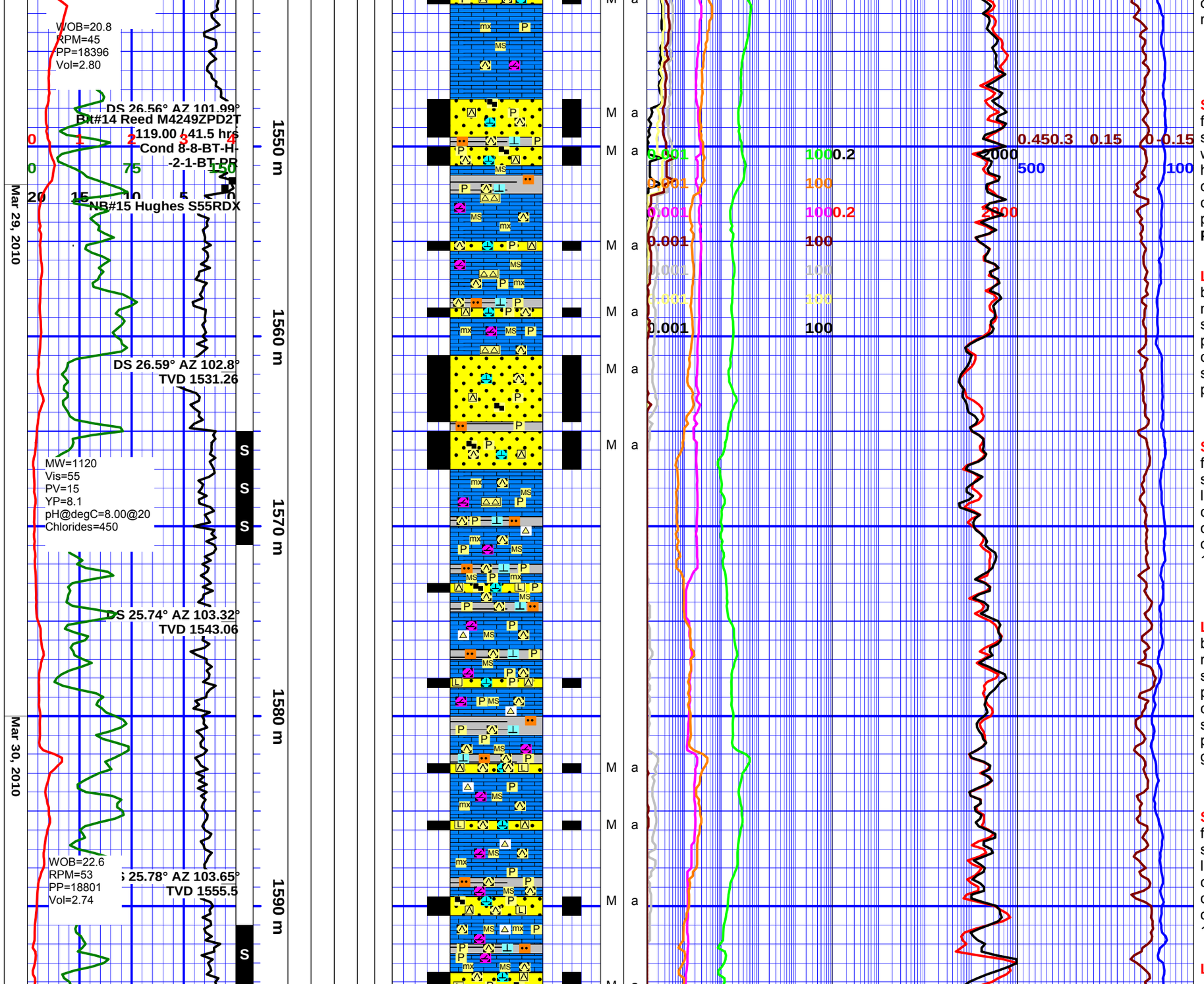
Chert: light brown, gray brown, clear, very hard, brittle, conchoidal break.

Limestone: buff, light to dark brown, off white, cream, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

Shale: dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, slightly calcareous, trace carbonaceous specks.

Sandstone: off white, salt & pepper, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, 8 to 12% inferred porosity, no shows.

Limestone: dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, occasional siliceous, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining,



Sandstone: off white, light gray, clear, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, frequent carbonaceous specks, 8 to 12% inferred porosity, no shows.**(Bmt's Up Sample. POOH for new Bit.**

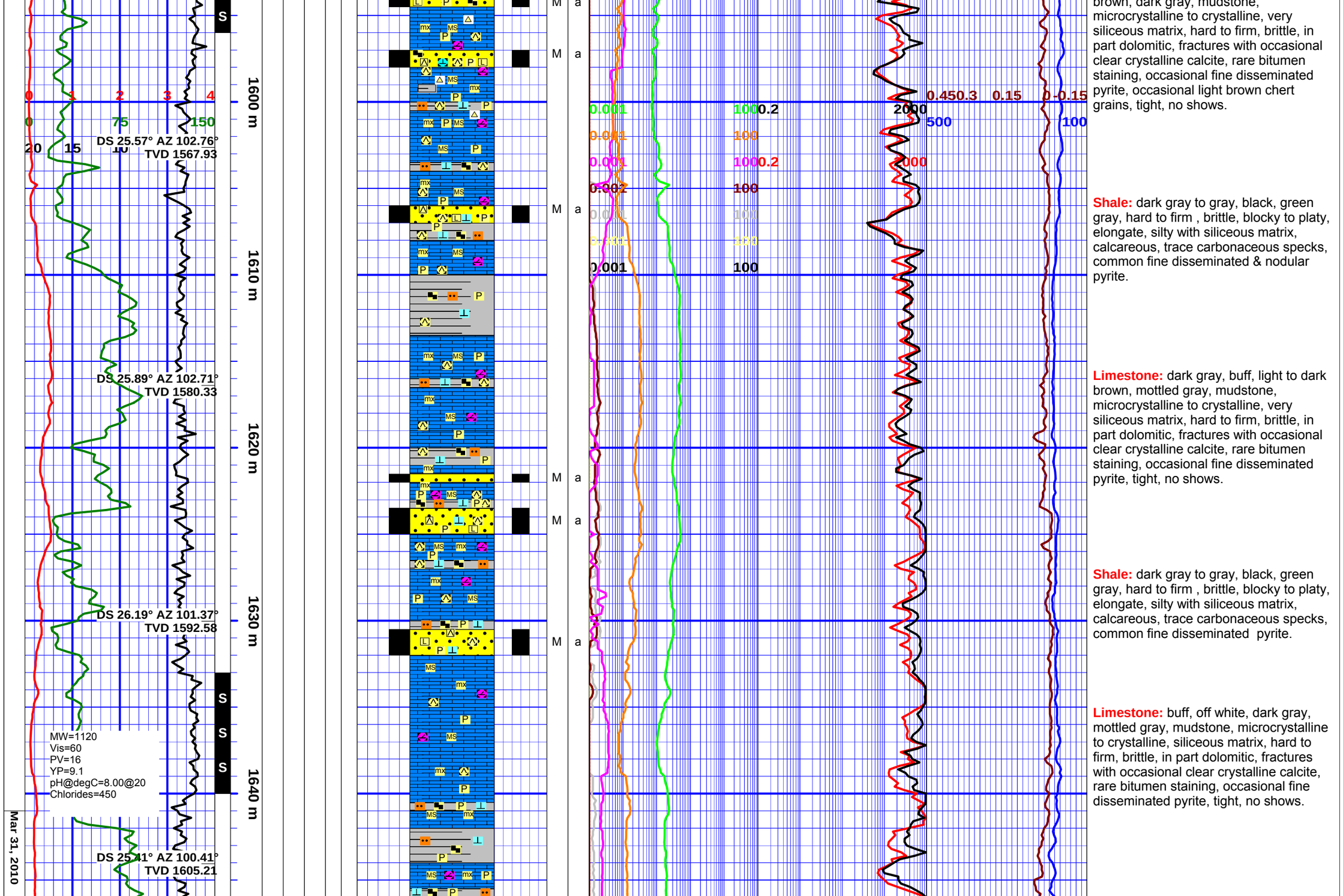
Limestone: dark gray, buff, light to dark brown, off white, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

Sandstone: off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

Limestone: buff, off white, light to dark brown, dark gray, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows.

Sandstone: off white, light to dark gray, fine to medium grained, moderate sorted, subangular, mainly quartz, abundant lithic fragments, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, frequent disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

Limestone: buff, off white, light to dark



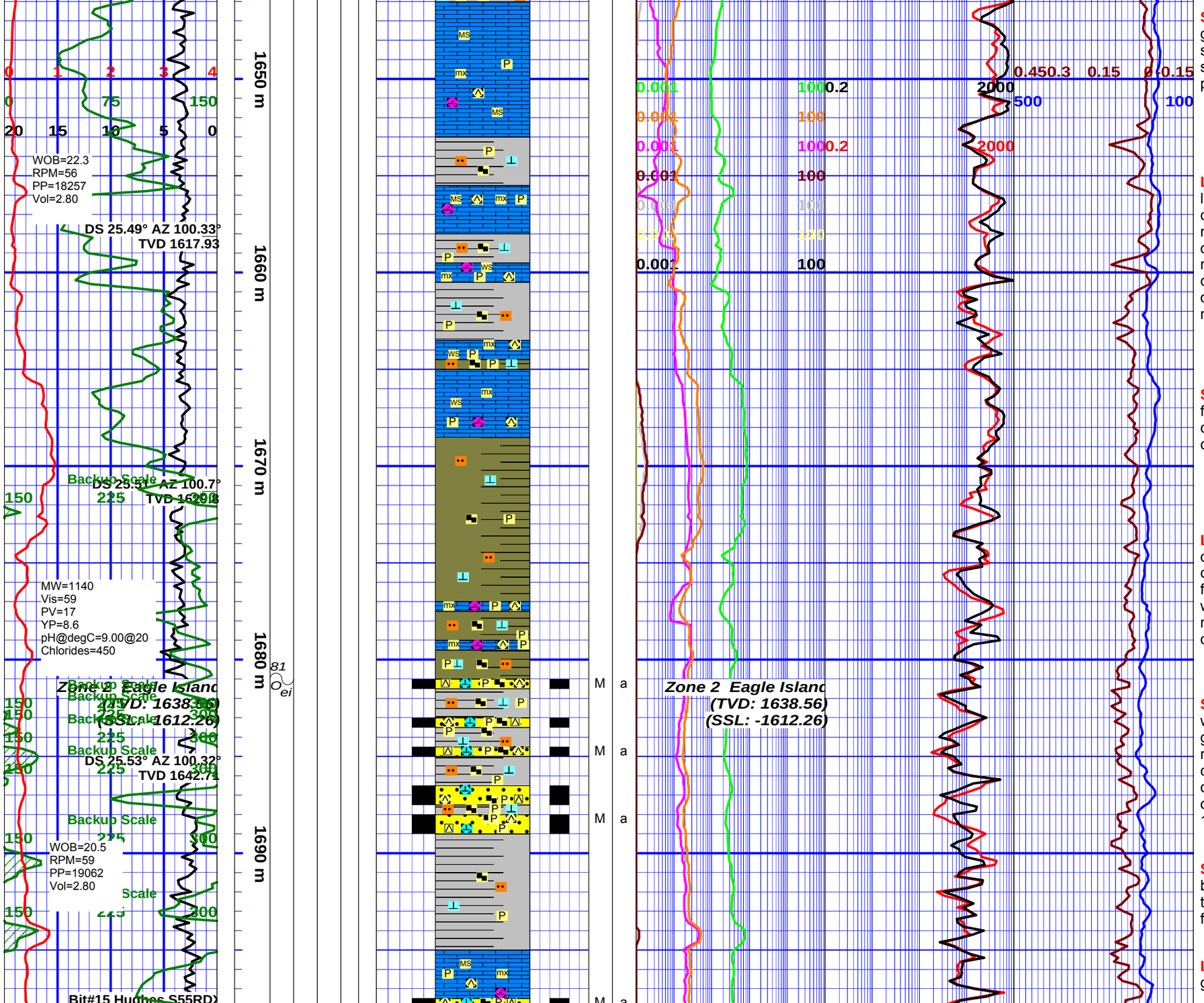
brown, dark gray, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, occasional light brown chert grains, tight, no shows.

Shale: dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, common fine disseminated & nodular pyrite.

Limestone: dark gray, buff, light to dark brown, mottled gray, mudstone, microcrystalline to crystalline, very siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

Shale: dark gray to gray, black, green gray, hard to firm , brittle, blocky to platy, elongate, silty with siliceous matrix, calcareous, trace carbonaceous specks, common fine disseminated pyrite.

Limestone: buff, off white, dark gray, mottled gray, mudstone, microcrystalline to crystalline, siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.



Shale: dark gray to gray, black, green gray, hard to firm, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

Limestone: buff, off white, dark gray, light brown, mudstone, microcrystalline to cryptocrystalline, occasional crystalline, minor siliceous matrix, firm to hard, occasional chalky, in part dolomitic, minor fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

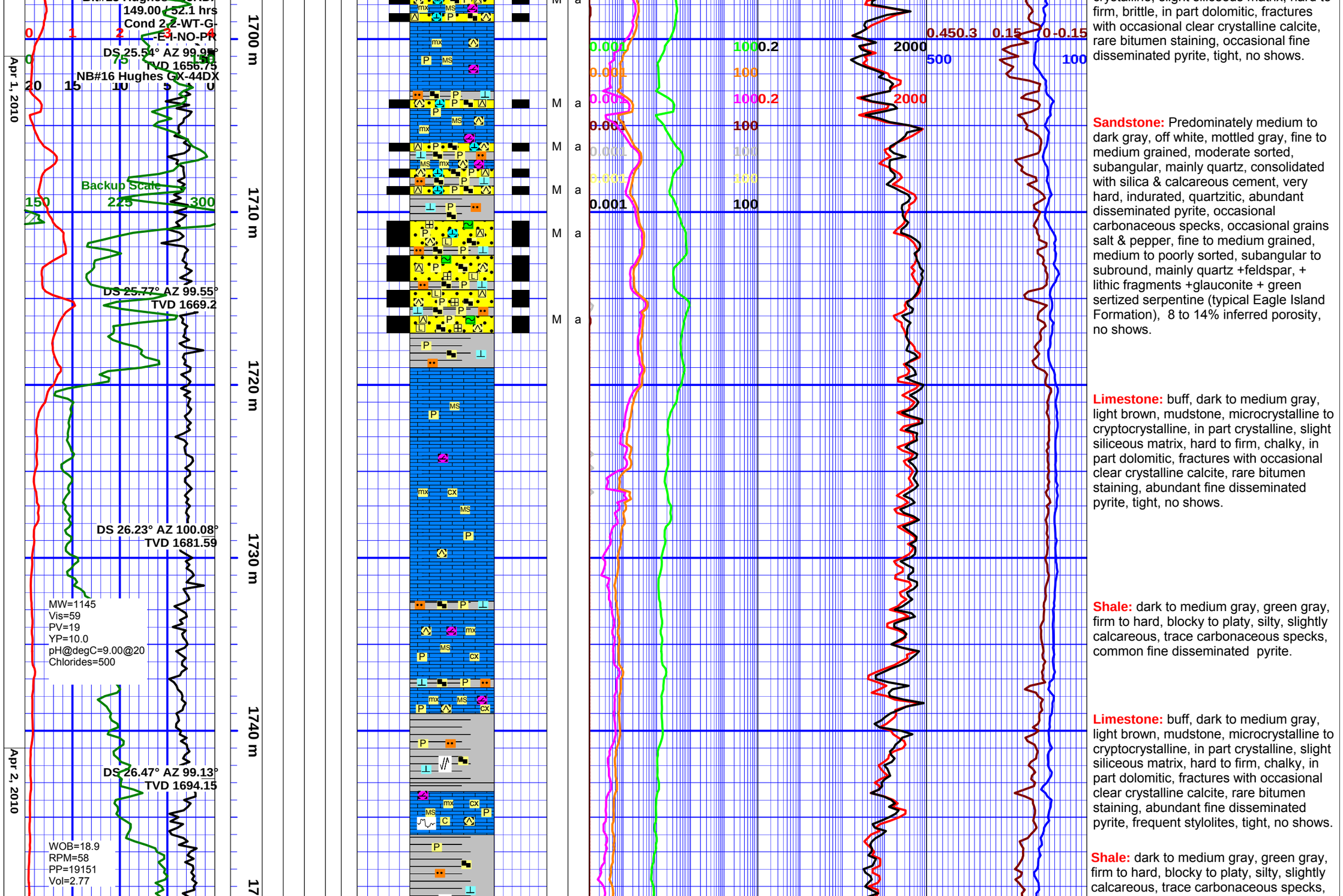
Shale: green gray, dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

Limestone: dark to medium gray, buff, off white, packstone, microcrystalline to crystalline, slight siliceous matrix, hard to firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

Sandstone: medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, trace disseminated pyrite, occasional carbonaceous specks, 8 to 12% inferred porosity, no shows.

Shale: dark to medium gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

Limestone: dark to medium gray, buff, gray brown, mudstone, microcrystalline to



firm, brittle, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, occasional fine disseminated pyrite, tight, no shows.

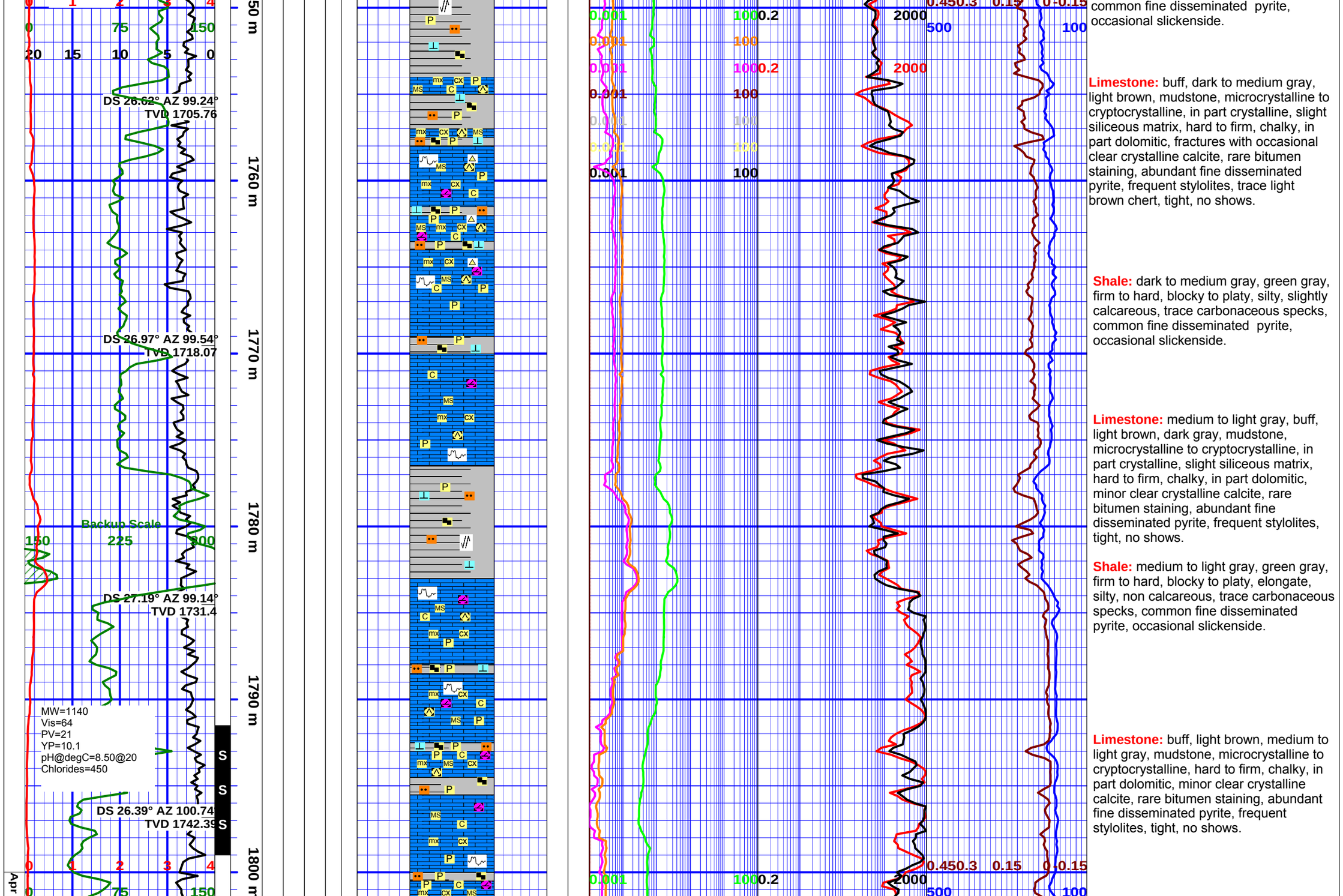
Sandstone: Predominately medium to dark gray, off white, mottled gray, fine to medium grained, moderate sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, quartzitic, abundant disseminated pyrite, occasional carbonaceous specks, occasional grains salt & pepper, fine to medium grained, medium to poorly sorted, subangular to subround, mainly quartz +feldspar, + lithic fragments +glauconite + green sertized serpentine (typical Eagle Island Formation), 8 to 14% inferred porosity, no shows.

Limestone: buff, dark to medium gray, light brown, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, tight, no shows.

Shale: dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite.

Limestone: buff, dark to medium gray, light brown, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

Shale: dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks,



common fine disseminated pyrite, occasional slickenside.

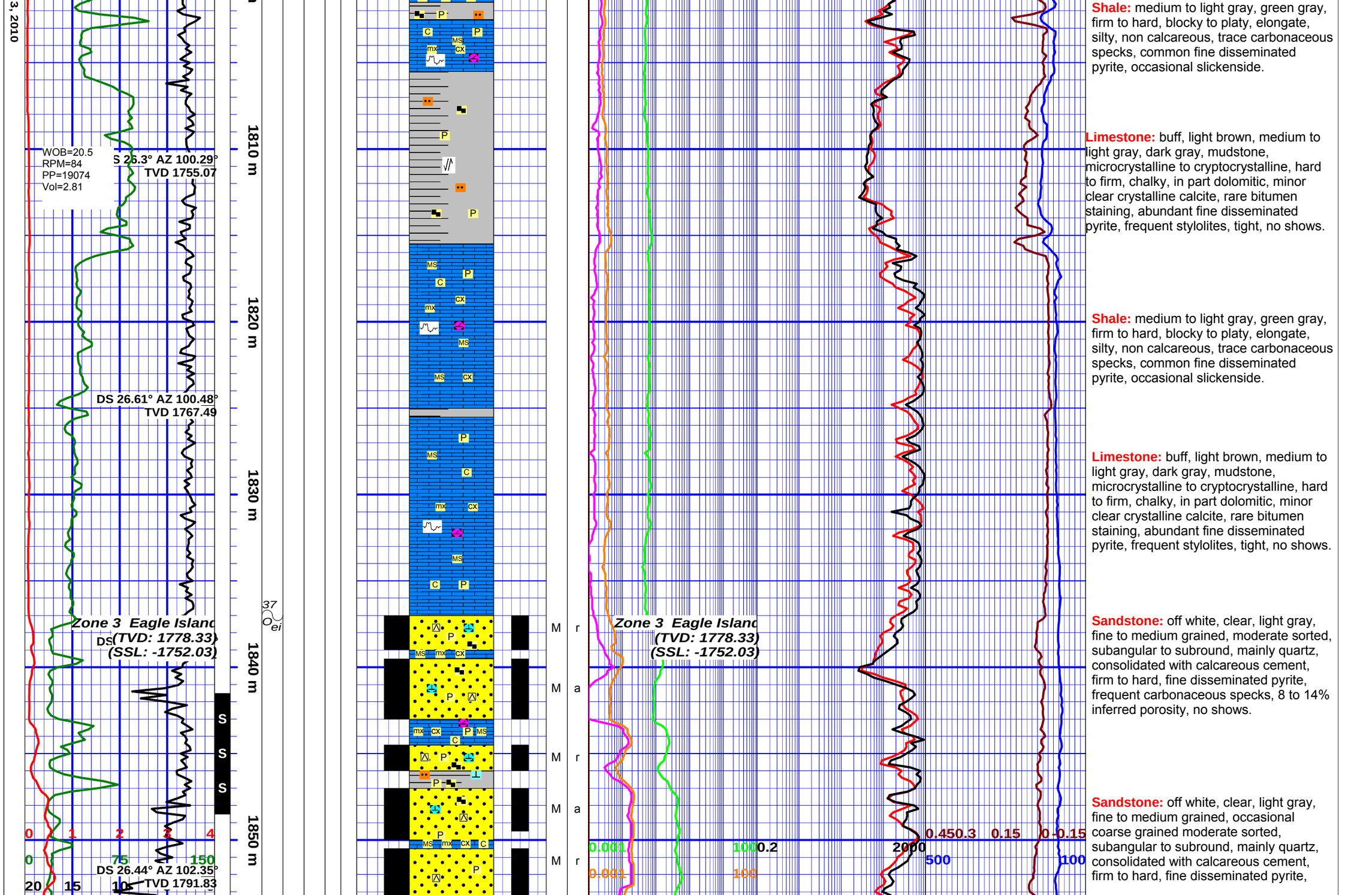
Limestone: buff, dark to medium gray, light brown, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, fractures with occasional clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, trace light brown chert, tight, no shows.

Shale: dark to medium gray, green gray, firm to hard, blocky to platy, silty, slightly calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

Limestone: medium to light gray, buff, light brown, dark gray, mudstone, microcrystalline to cryptocrystalline, in part crystalline, slight siliceous matrix, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

Shale: medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

Limestone: buff, light brown, medium to light gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.



Shale: medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

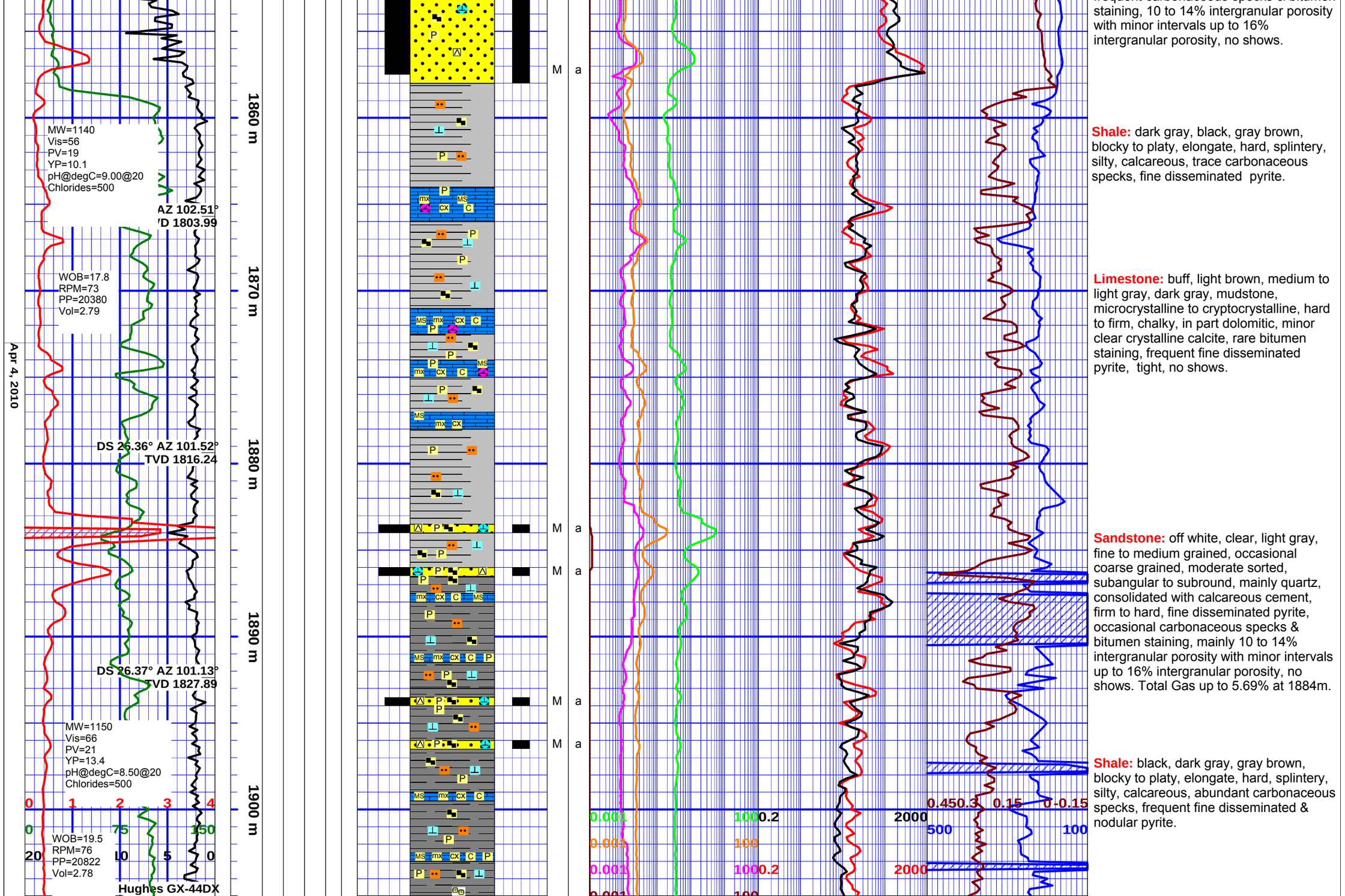
Limestone: buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

Shale: medium to light gray, green gray, firm to hard, blocky to platy, elongate, silty, non calcareous, trace carbonaceous specks, common fine disseminated pyrite, occasional slickenside.

Limestone: buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, abundant fine disseminated pyrite, frequent stylolites, tight, no shows.

Sandstone: off white, clear, light gray, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, frequent carbonaceous specks, 8 to 14% inferred porosity, no shows.

Sandstone: off white, clear, light gray, fine to medium grained, occasional coarse grained moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite,



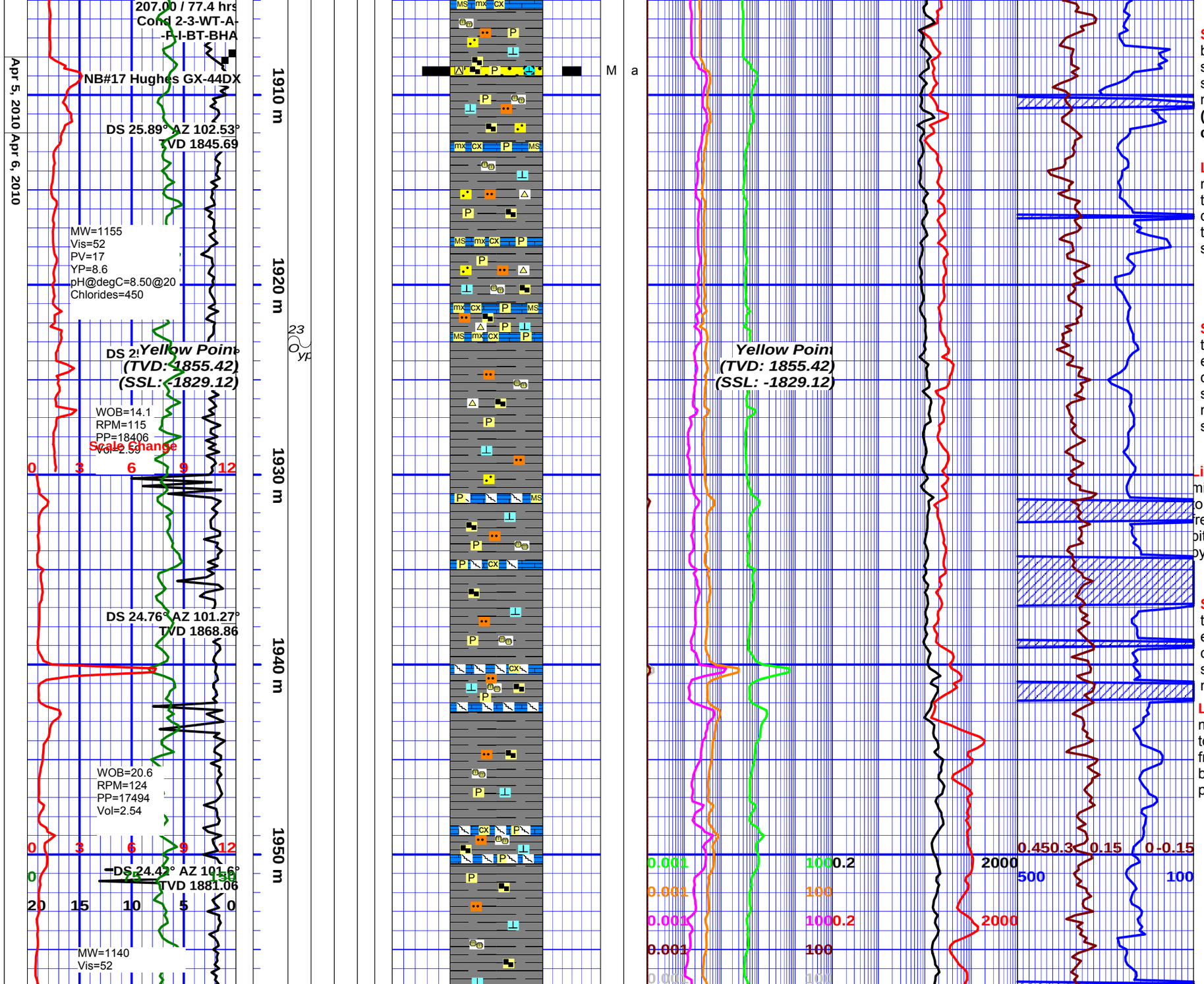
staining, 10 to 14% intergranular porosity with minor intervals up to 16% intergranular porosity, no shows.

Shale: dark gray, black, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, trace carbonaceous specks, fine disseminated pyrite.

Limestone: buff, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent fine disseminated pyrite, tight, no shows.

Sandstone: off white, clear, light gray, fine to medium grained, occasional coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, firm to hard, fine disseminated pyrite, occasional carbonaceous specks & bitumen staining, mainly 10 to 14% intergranular porosity with minor intervals up to 16% intergranular porosity, no shows. Total Gas up to 5.69% at 1884m.

Shale: black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite.



Shale: black, dark gray, gray brown, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, frequent fine disseminated & nodular pyrite, micro micaceous. **(Bottom's up sample: POOH to change Bit & BHA)**

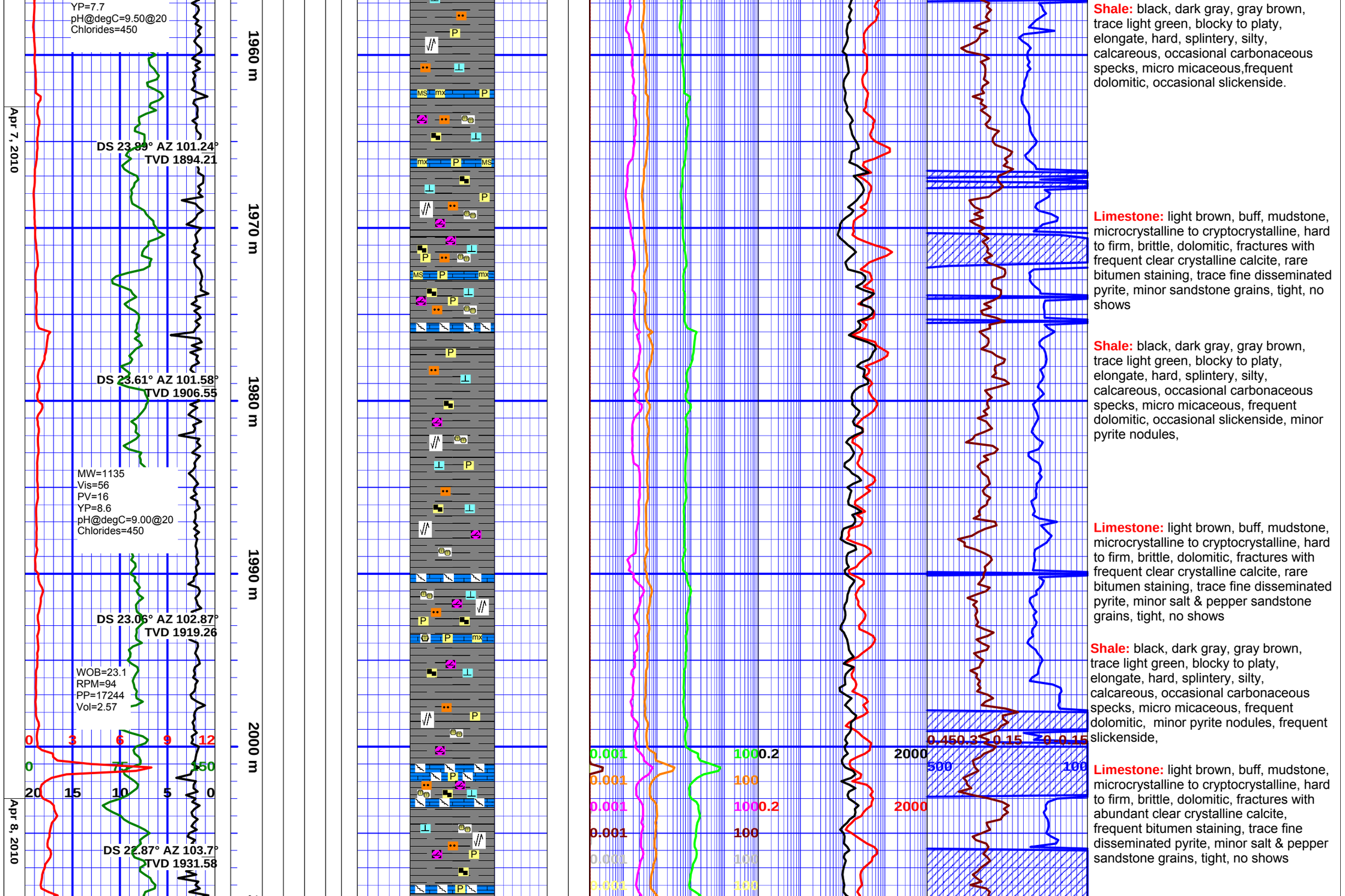
Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

Shale: black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, trace fine disseminated pyrite, micro micaceous, trace salt & pepper sandstone & light brown chert.

Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, & bitumen staining, trace fine disseminated pyrite, tight, no shows.

Shale: black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, abundant carbonaceous specks, occasional nodular pyrite, micro micaceous.

Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, & bitumen staining, trace fine disseminated pyrite, tight, no shows.



Shale: black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous,frequent dolomitic, occasional slickenside.

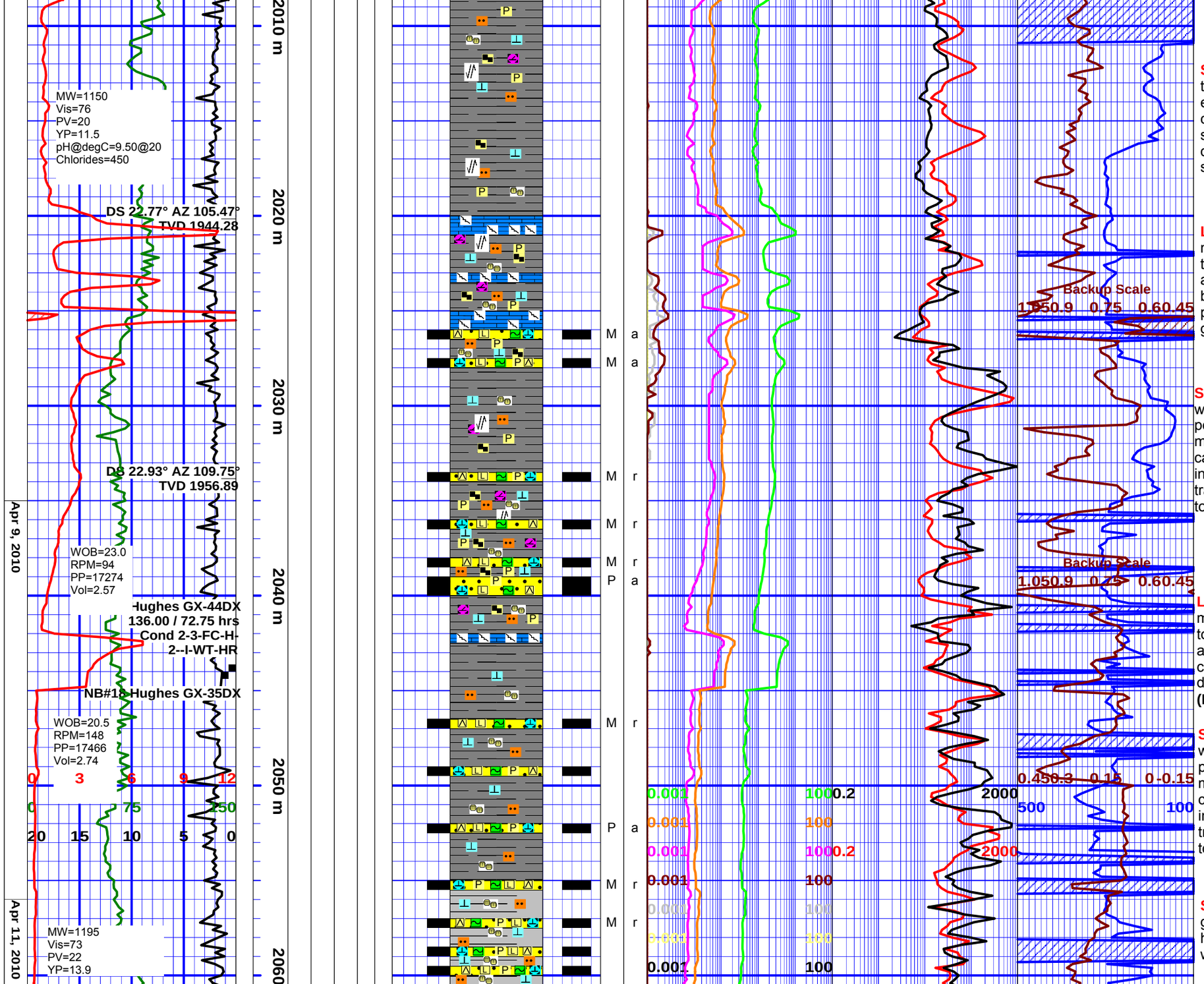
Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor sandstone grains, tight, no shows

Shale: black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, occasional slickenside, minor pyrite nodules,

Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with frequent clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor salt & pepper sandstone grains, tight, no shows

Shale: black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickenside,

Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear crystalline calcite, frequent bitumen staining, trace fine disseminated pyrite, minor salt & pepper sandstone grains, tight, no shows



Shale: black, dark gray, gray brown, trace light green, blocky to platy, elongate, hard, splintery, silty, calcareous, occasional carbonaceous specks, micro micaceous, frequent dolomitic, minor pyrite nodules, frequent slickenside,

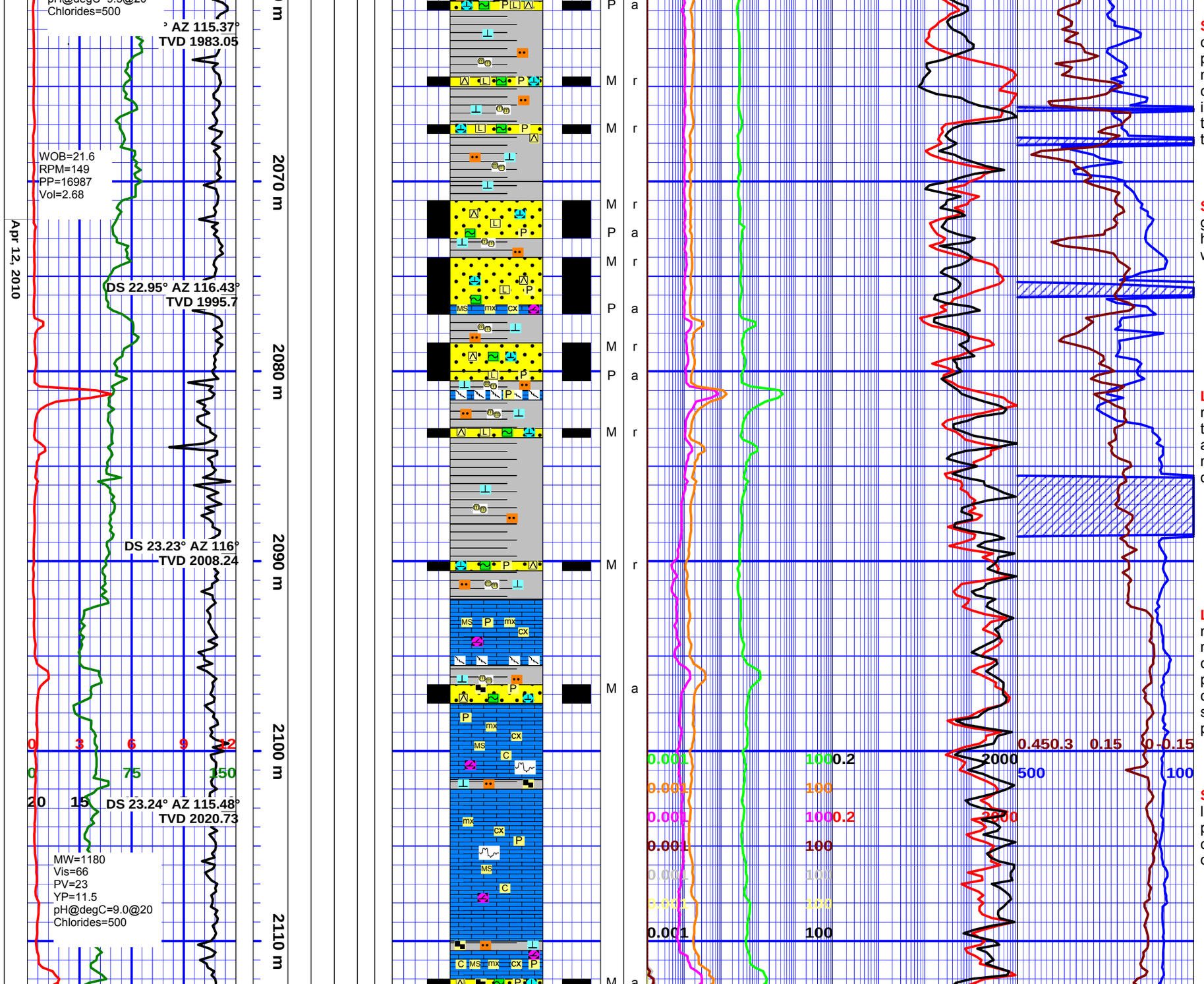
Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, minor off white hard sandstone grains, tight, no shows.

Sandstone: salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows. **(POOH for New Bit)**

Sandstone: salt & pepper, clear, off white, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

Shale: dark to medium gray, gray brown, green gray, blocky to platy, hackly, firm to hard, in part earthy to smooth, trace waxy, calcareous, silty, micro micaceous.



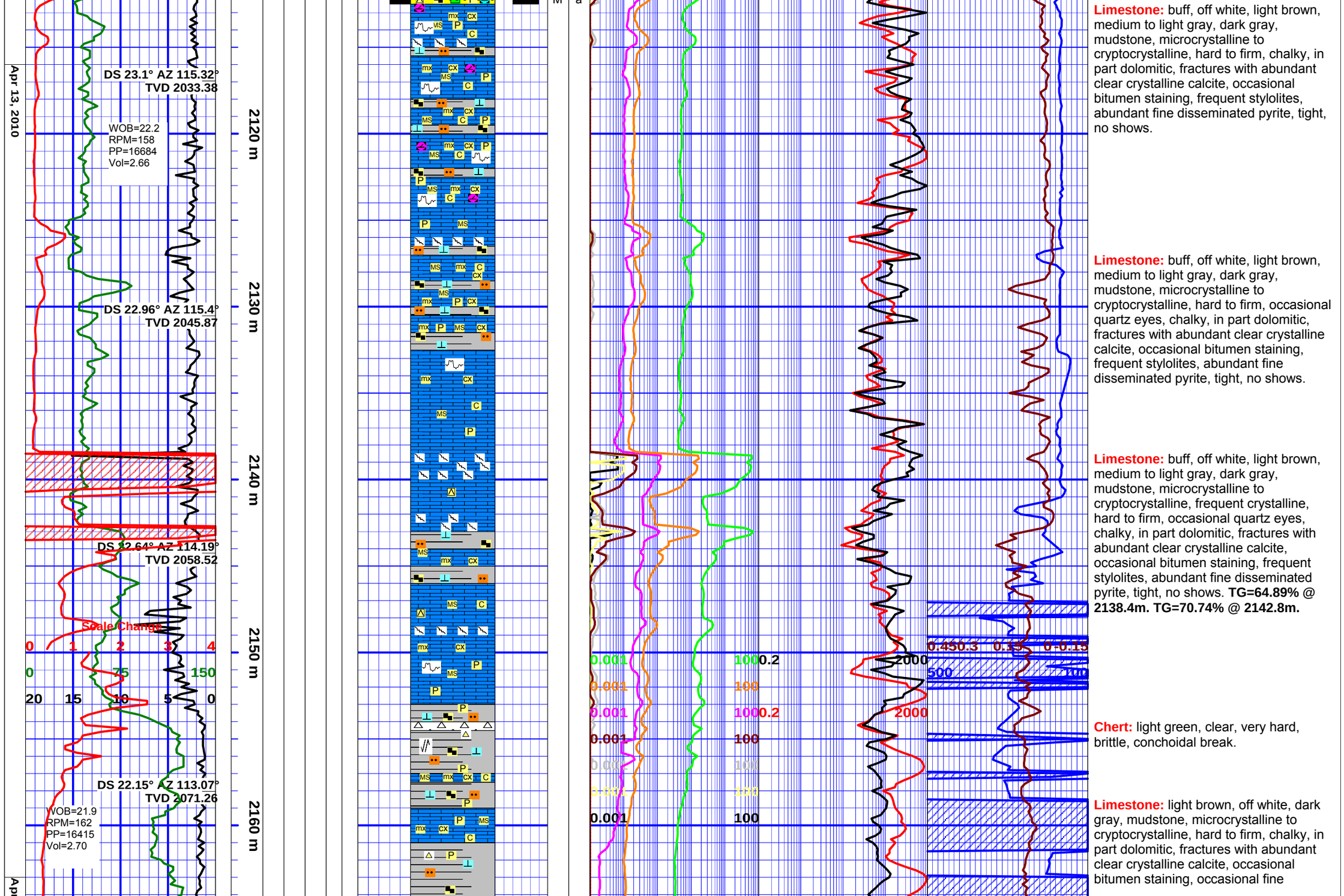
Sandstone: salt & pepper, off white, clear, fine to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with calcareous cement, hard, in part brittle, indurated, abundant lithic fragments, trace glauconite & disseminated pyrite, 8 to 12% inferred porosity, no shows.

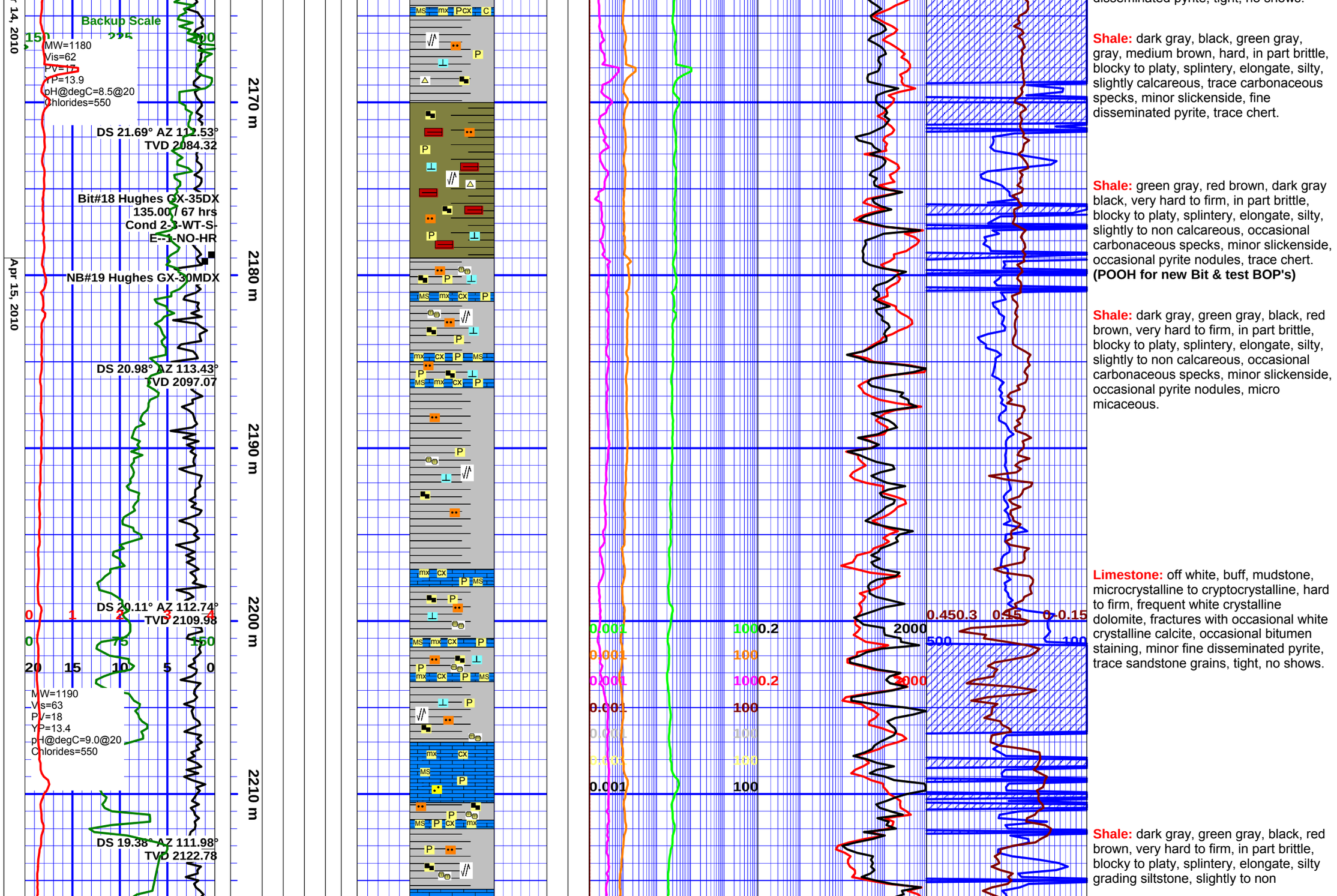
Shale: dark to medium gray, gray brown, green gray, blocky to platy, hackly, firm to hard, in part earthy to smooth, trace waxy, calcareous, silty, micro micaceous.

Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, brittle, dolomitic, fractures with abundant clear to white crystalline calcite, rare bitumen staining, trace fine disseminated pyrite, tight, no shows.

Limestone: buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, minor clear crystalline calcite, rare bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.

Shale: dark to medium gray, green gray, light gray, hard, in part brittle, blocky to platy, hackly, silty, non to slightly calcareous, trace carbonaceous specks, occasional slickenside.


Apr 13, 2010
DS 23.1° AZ 115.32°
TVD 2033.38
WOB=22.2
RPM=158
PP=16684
Vol=2.66
DS 22.96° AZ 115.4°
TVD 2045.87
DS 22.64° AZ 114.19°
TVD 2058.52
Scale Change
0 1 2 3 4
0 75 150
20 15 10 5 0
DS 22.15° AZ 113.07°
TVD 2071.26
WOB=21.9
RPM=162
PP=16415
Vol=2.70
2120 m
2130 m
2140 m
2150 m
2160 m
0.001
1000
0.2
100
2000
0.450.3
0.15
0-0.15
500
Limestone: buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.
Limestone: buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows.
Limestone: buff, off white, light brown, medium to light gray, dark gray, mudstone, microcrystalline to cryptocrystalline, frequent crystalline, hard to firm, occasional quartz eyes, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, frequent stylolites, abundant fine disseminated pyrite, tight, no shows. TG=64.89% @ 2138.4m. TG=70.74% @ 2142.8m.
Chert: light green, clear, very hard, brittle, conchoidal break.
Limestone: light brown, off white, dark gray, mudstone, microcrystalline to cryptocrystalline, hard to firm, chalky, in part dolomitic, fractures with abundant clear crystalline calcite, occasional bitumen staining, occasional fine



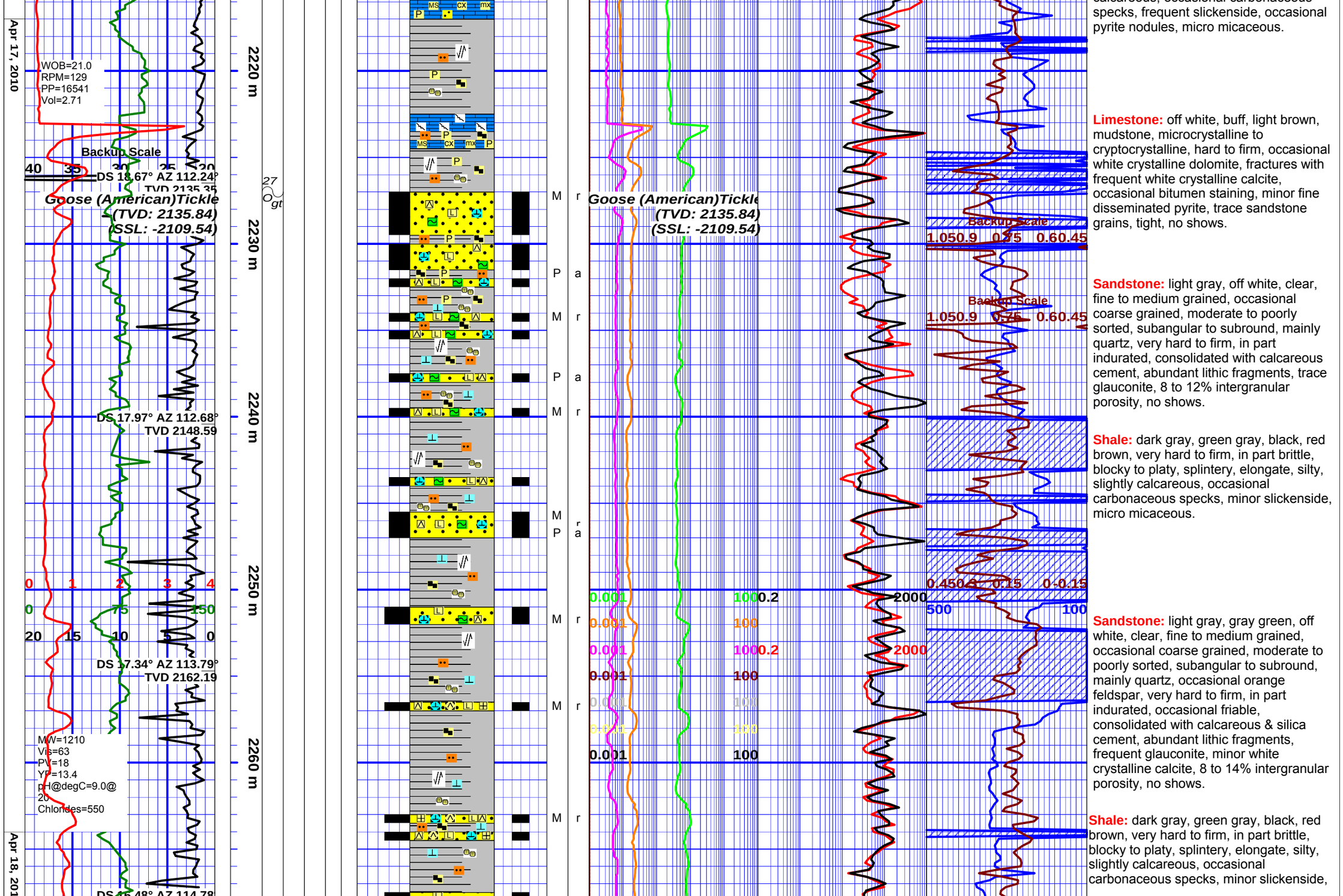
Shale: dark gray, black, green gray, gray, medium brown, hard, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, trace carbonaceous specks, minor slickenside, fine disseminated pyrite, trace chert.

Shale: green gray, red brown, dark gray black, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly to non calcareous, occasional carbonaceous specks, minor slickenside, occasional pyrite nodules, trace chert. **(POOH for new Bit & test BOP's)**

Shale: dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly to non calcareous, occasional carbonaceous specks, minor slickenside, occasional pyrite nodules, micro micaceous.

Limestone: off white, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white crystalline dolomite, fractures with occasional white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

Shale: dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty grading siltstone, slightly to non



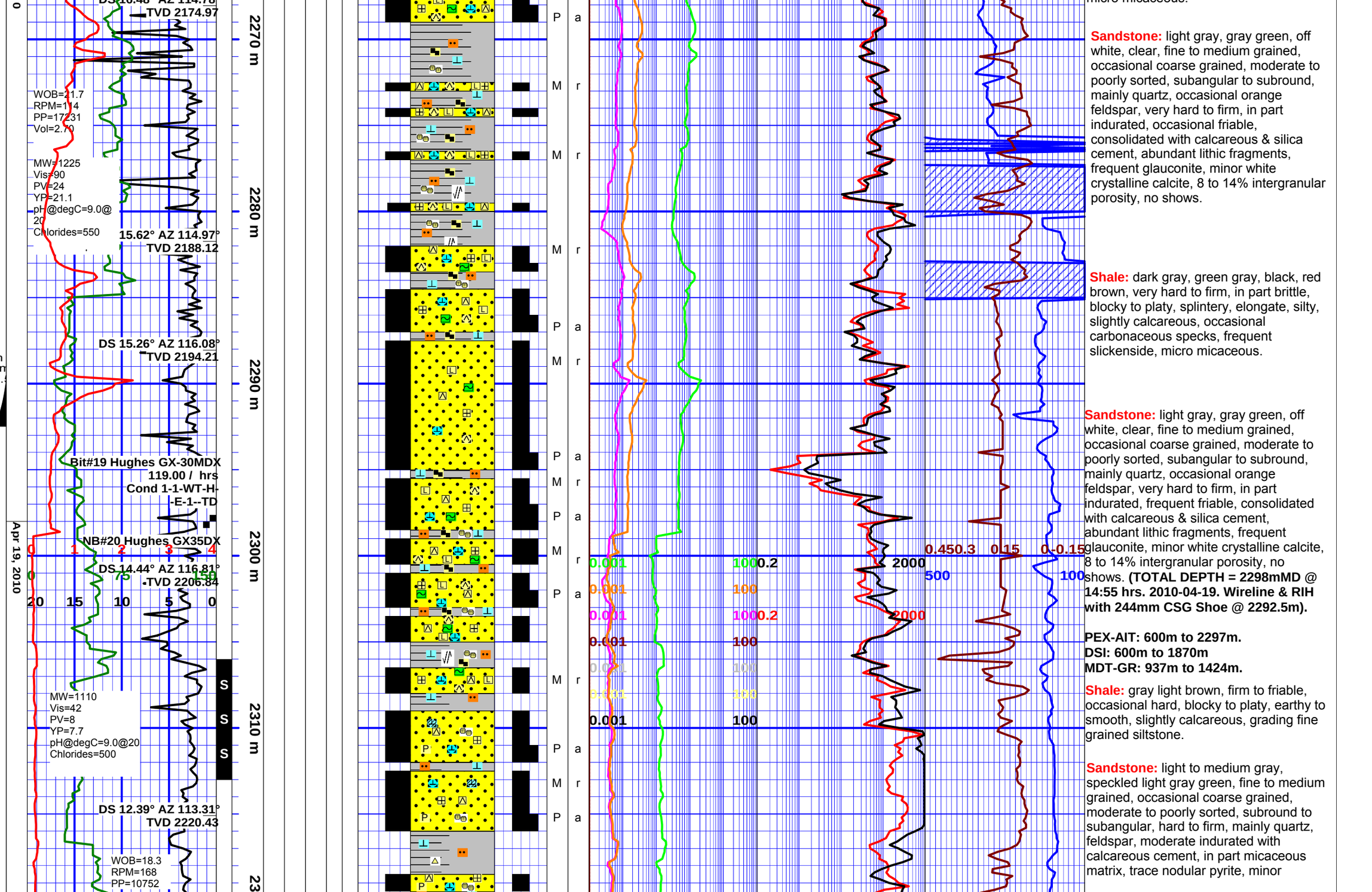
Limestone: off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, hard to firm, occasional white crystalline dolomite, fractures with frequent white crystalline calcite, occasional bitumen staining, minor fine disseminated pyrite, trace sandstone grains, tight, no shows.

Sandstone: light gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, very hard to firm, in part indurated, consolidated with calcareous cement, abundant lithic fragments, trace glauconite, 8 to 12% intergranular porosity, no shows.

Shale: dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, minor slickenside, micro micaceous.

Sandstone: light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

Shale: dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, minor slickenside,



Sandstone: light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, occasional friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows.

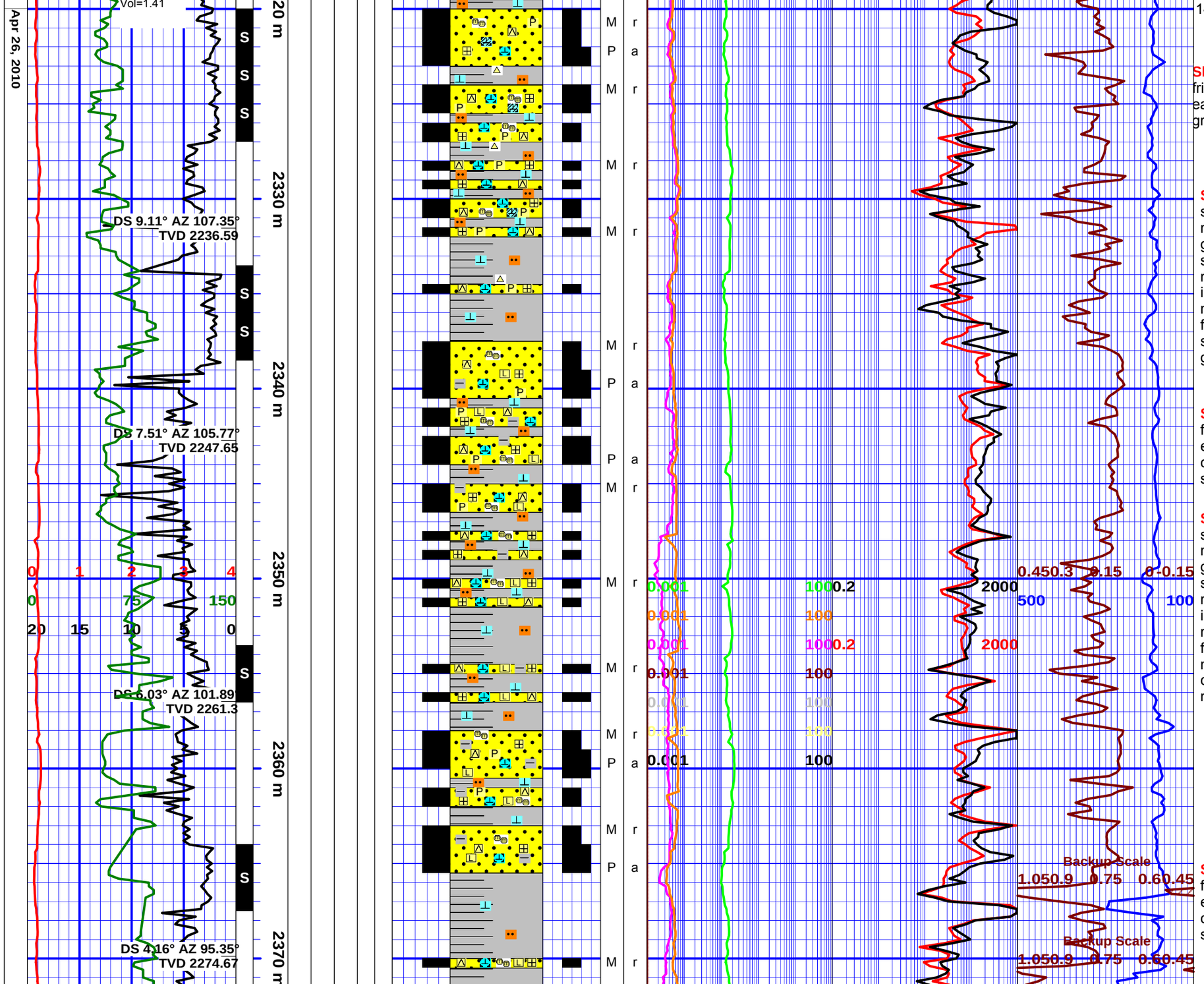
Shale: dark gray, green gray, black, red brown, very hard to firm, in part brittle, blocky to platy, splintery, elongate, silty, slightly calcareous, occasional carbonaceous specks, frequent slickenside, micro micaceous.

Sandstone: light gray, gray green, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, occasional orange feldspar, very hard to firm, in part indurated, frequent friable, consolidated with calcareous & silica cement, abundant lithic fragments, frequent glauconite, minor white crystalline calcite, 8 to 14% intergranular porosity, no shows. **(TOTAL DEPTH = 2298mMD @ 14:55 hrs. 2010-04-19. Wireline & RIH with 244mm CSG Shoe @ 2292.5m).**

PEX-AIT: 600m to 2297m.
DSI: 600m to 1870m
MDT-GR: 937m to 1424m.

Shale: gray light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly calcareous, grading fine grained siltstone.

Sandstone: light to medium gray, speckled light gray green, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, trace nodular pyrite, minor



14% inter granular porosity, no shows.

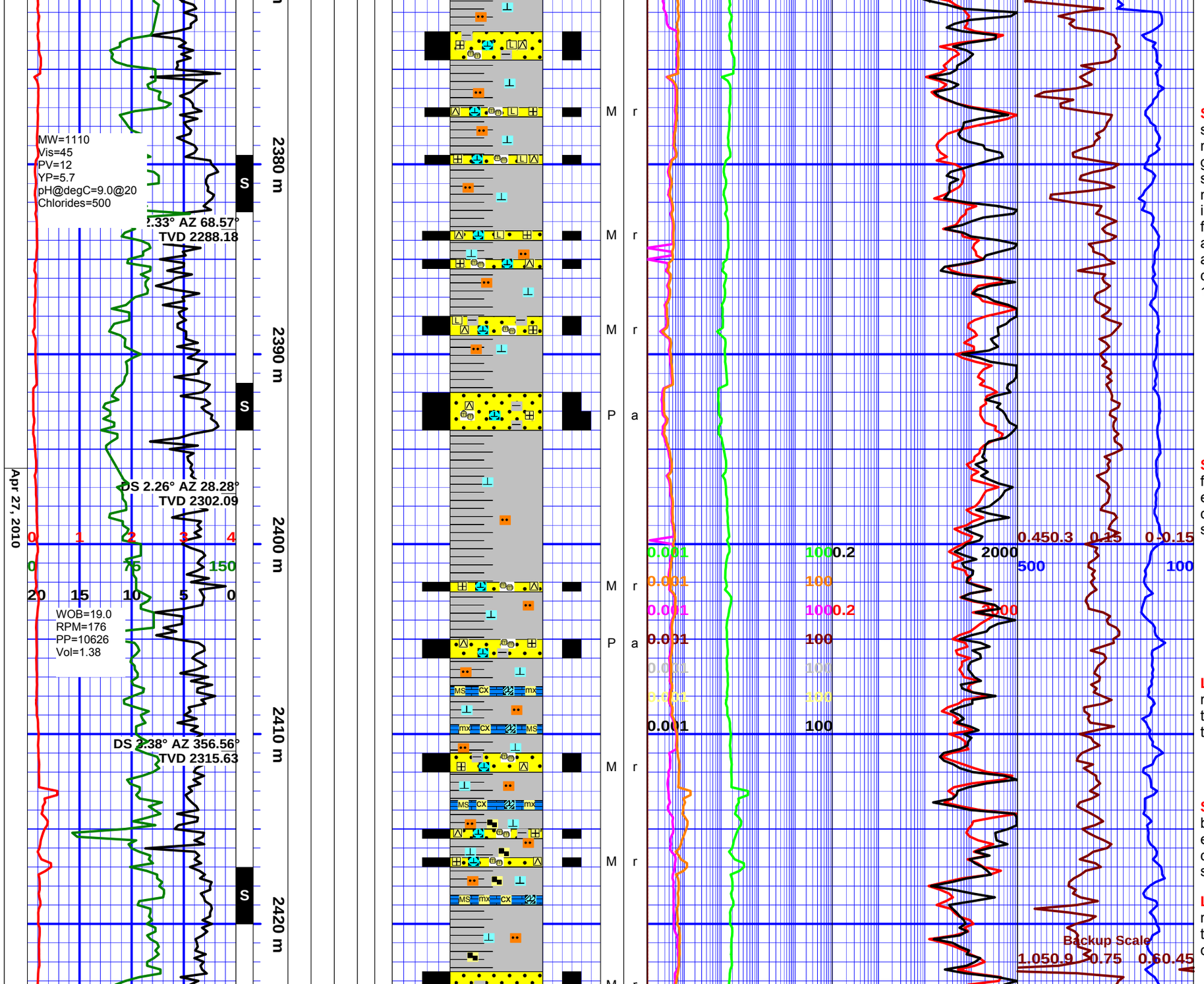
Shale: medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly calcareous, grading fine grained siltstone, trace chert.

Sandstone: light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, frequent lithic fragments, trace nodular pyrite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

Shale: medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone.

Sandstone: light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate indurated with calcareous cement, in part micaceous matrix, frequent lithic fragments, very argillaceous, trace nodular pyrite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

Shale: medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone.



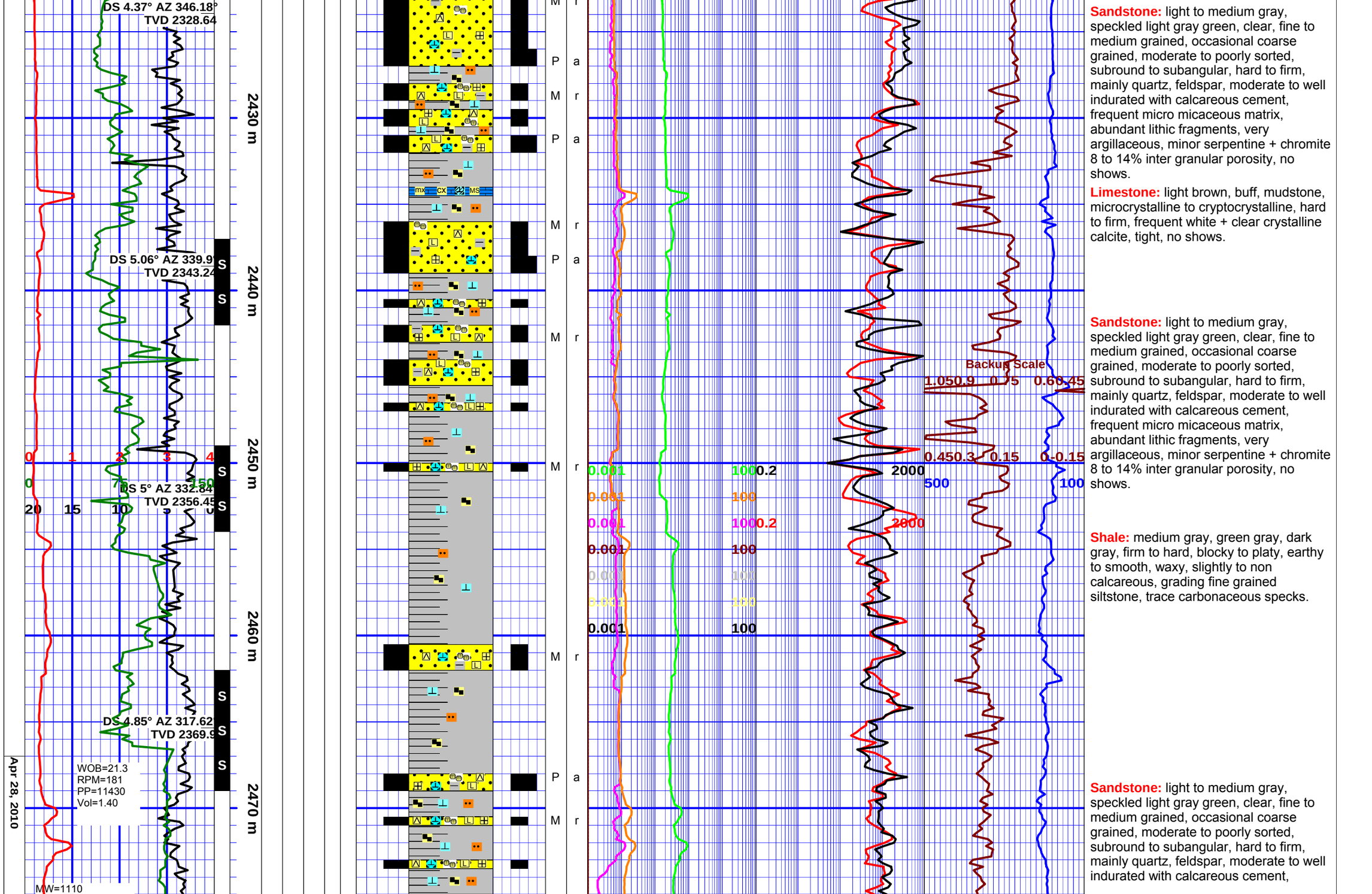
Sandstone: light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, frequent white crystalline calcite, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

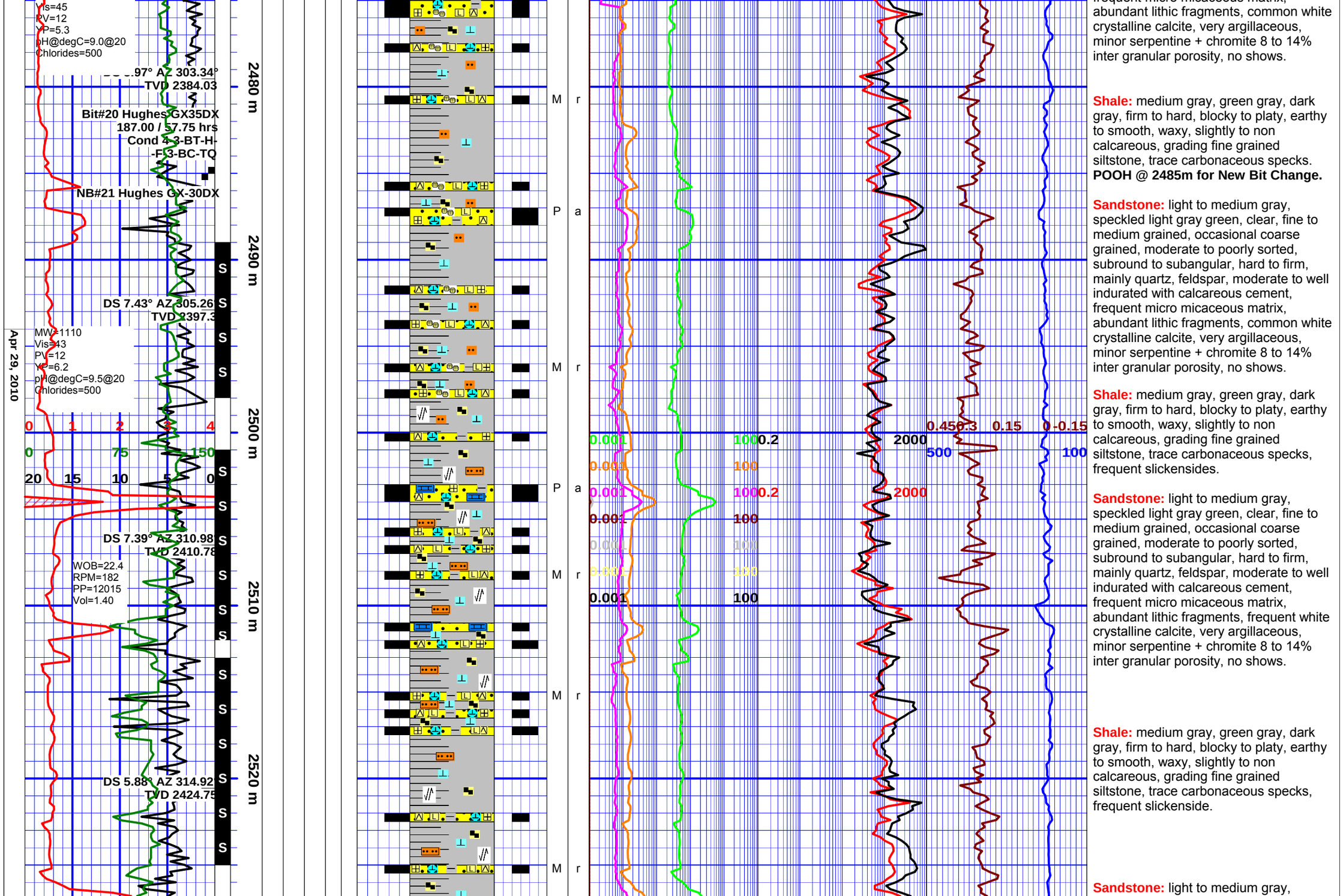
Shale: medium gray, light brown, firm to friable, occasional hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone.

Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white crystalline calcite, tight, no shows.

Shale: medium gray, green gray, light brown, firm to hard, blocky to platy, earthy to smooth, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.

Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white + clear crystalline calcite, tight, no shows.


DS 4.37° AZ 346.18°
TVD 2328.64
DS 5.06° AZ 339.9
TVD 2343.24
DS 5° AZ 332.84
TVD 2356.45
DS 4.85° AZ 317.62
TVD 2369.9
2430 m
2440 m
2450 m
2460 m
2470 m
Apr 28, 2010
WOB=21.3
RPM=181
PP=11430
Vol=1.40
MW=1110
Backup Scale
1.05 0.9
0.75
0.6 0.45
0.45 0.3
0.15
0 -0.15
2000
500
100
2800
0.001
1000.2
100
Sandstone: light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.
Limestone: light brown, buff, mudstone, microcrystalline to cryptocrystalline, hard to firm, frequent white + clear crystalline calcite, tight, no shows.
Sandstone: light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.
Shale: medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks.
Sandstone: light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement,



Shale: medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks. **POOH @ 2485m for New Bit Change.**

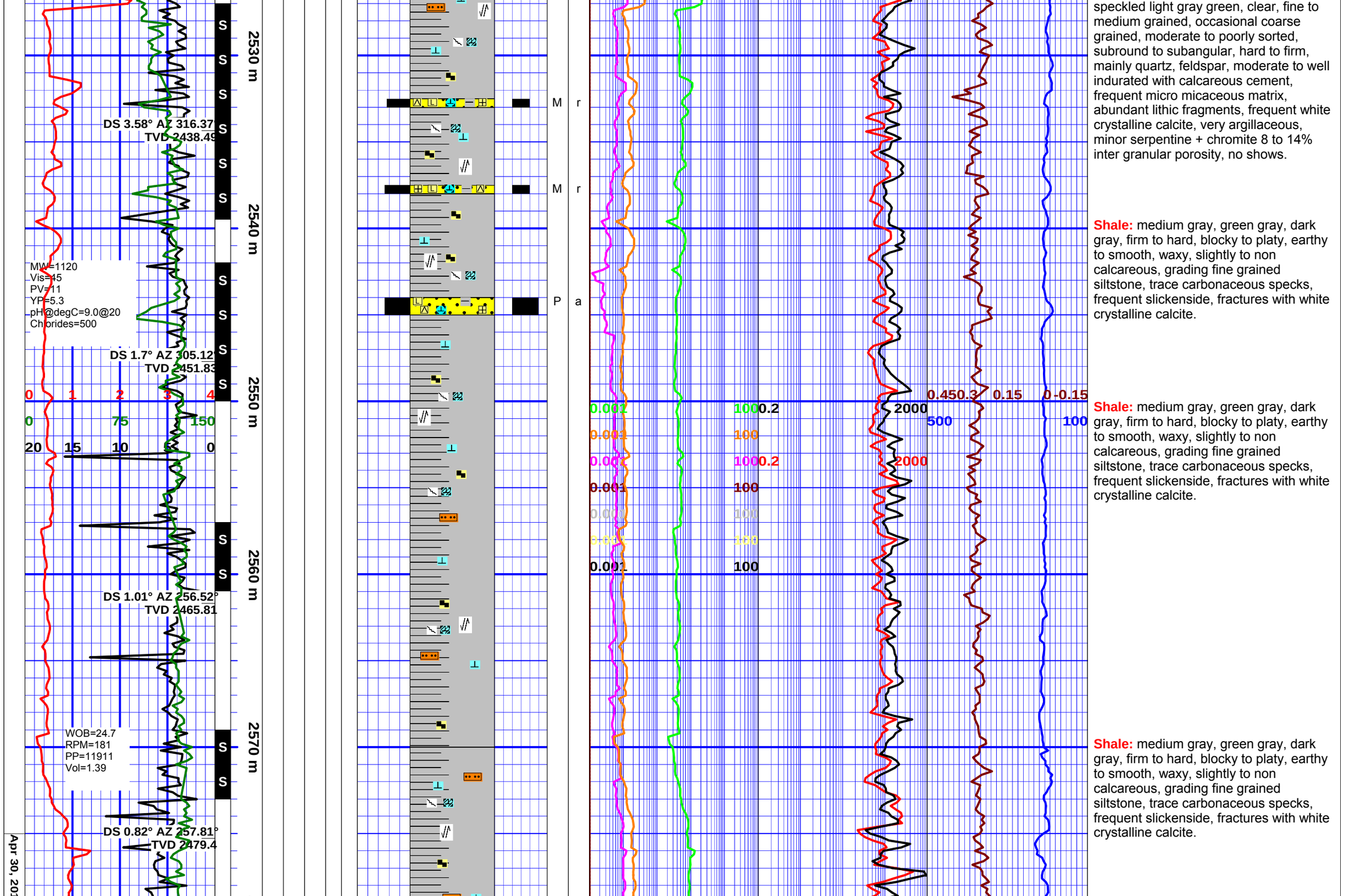
Sandstone: light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, common white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

Shale: medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickensides.

Sandstone: light to medium gray, speckled light gray green, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subround to subangular, hard to firm, mainly quartz, feldspar, moderate to well indurated with calcareous cement, frequent micro micaceous matrix, abundant lithic fragments, frequent white crystalline calcite, very argillaceous, minor serpentine + chromite 8 to 14% inter granular porosity, no shows.

Shale: medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside.

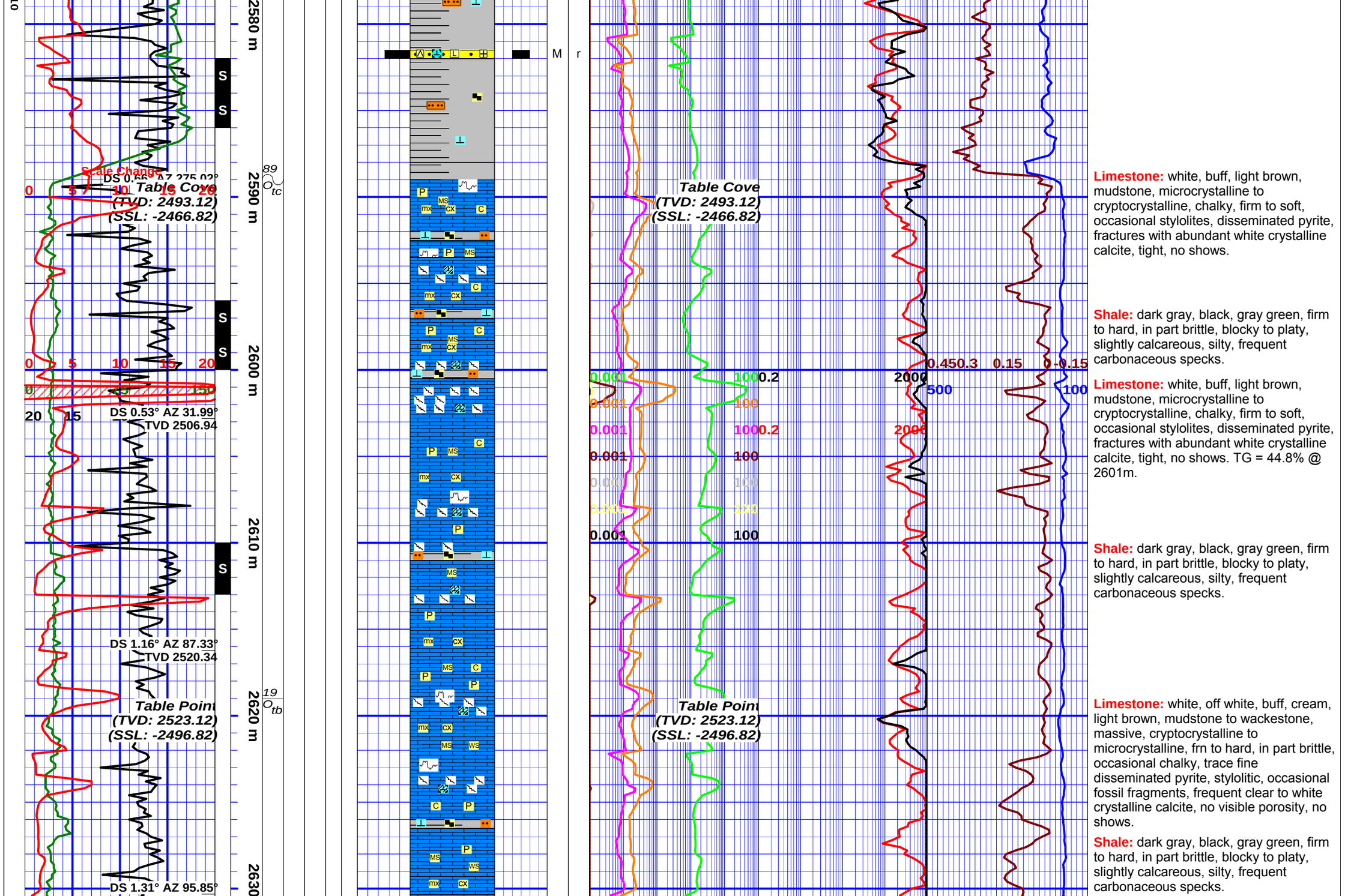
Sandstone: light to medium gray,



Shale: medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite.

Shale: medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite.

Shale: medium gray, green gray, dark gray, firm to hard, blocky to platy, earthy to smooth, waxy, slightly to non calcareous, grading fine grained siltstone, trace carbonaceous specks, frequent slickenside, fractures with white crystalline calcite.



Limestone: white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcite, tight, no shows.

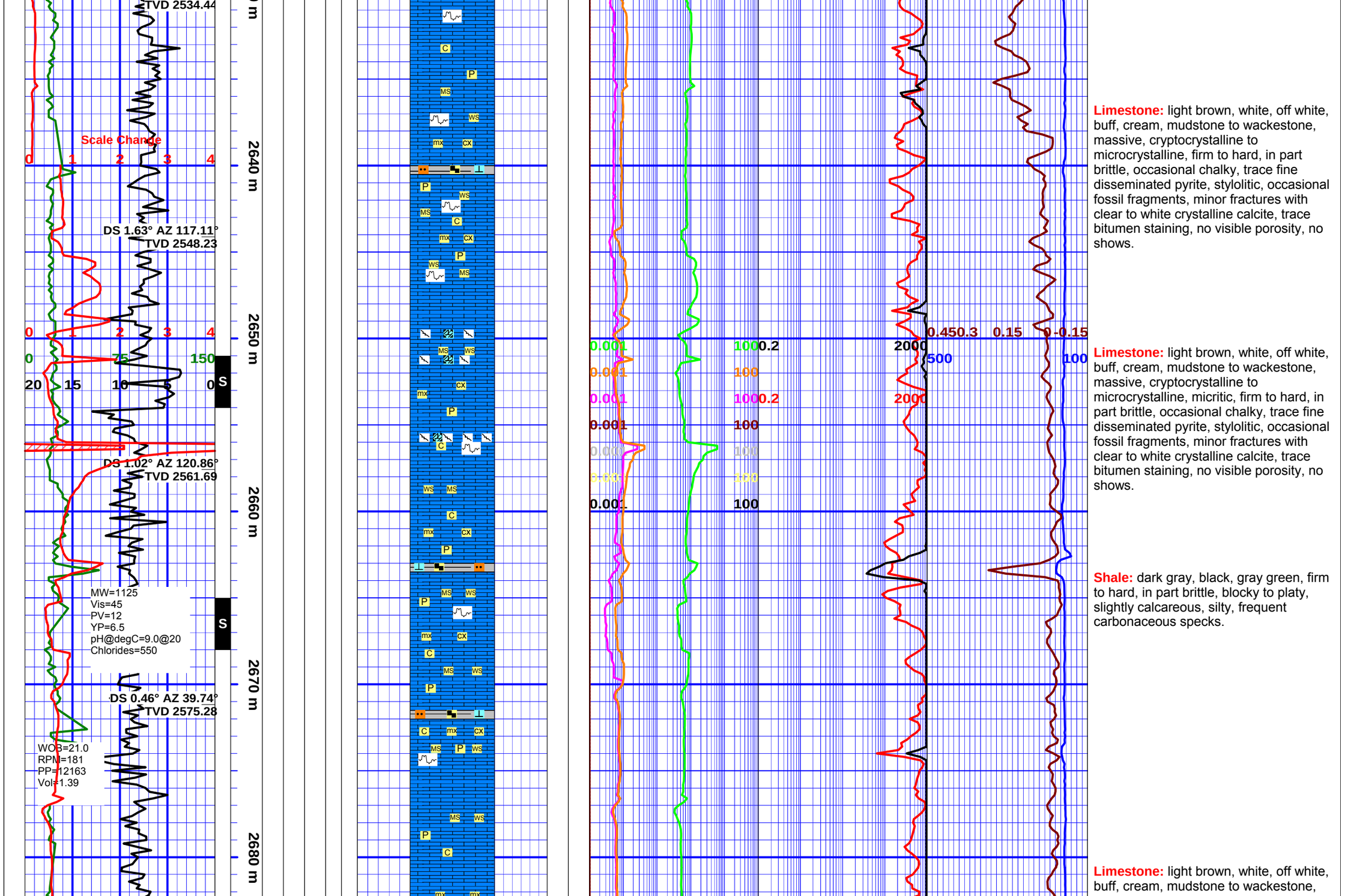
Shale: dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

Limestone: white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, chalky, firm to soft, occasional stylolites, disseminated pyrite, fractures with abundant white crystalline calcite, tight, no shows. TG = 44.8% @ 2601m.

Shale: dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

Limestone: white, off white, buff, cream, light brown, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, frn to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, frequent clear to white crystalline calcite, no visible porosity, no shows.

Shale: dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

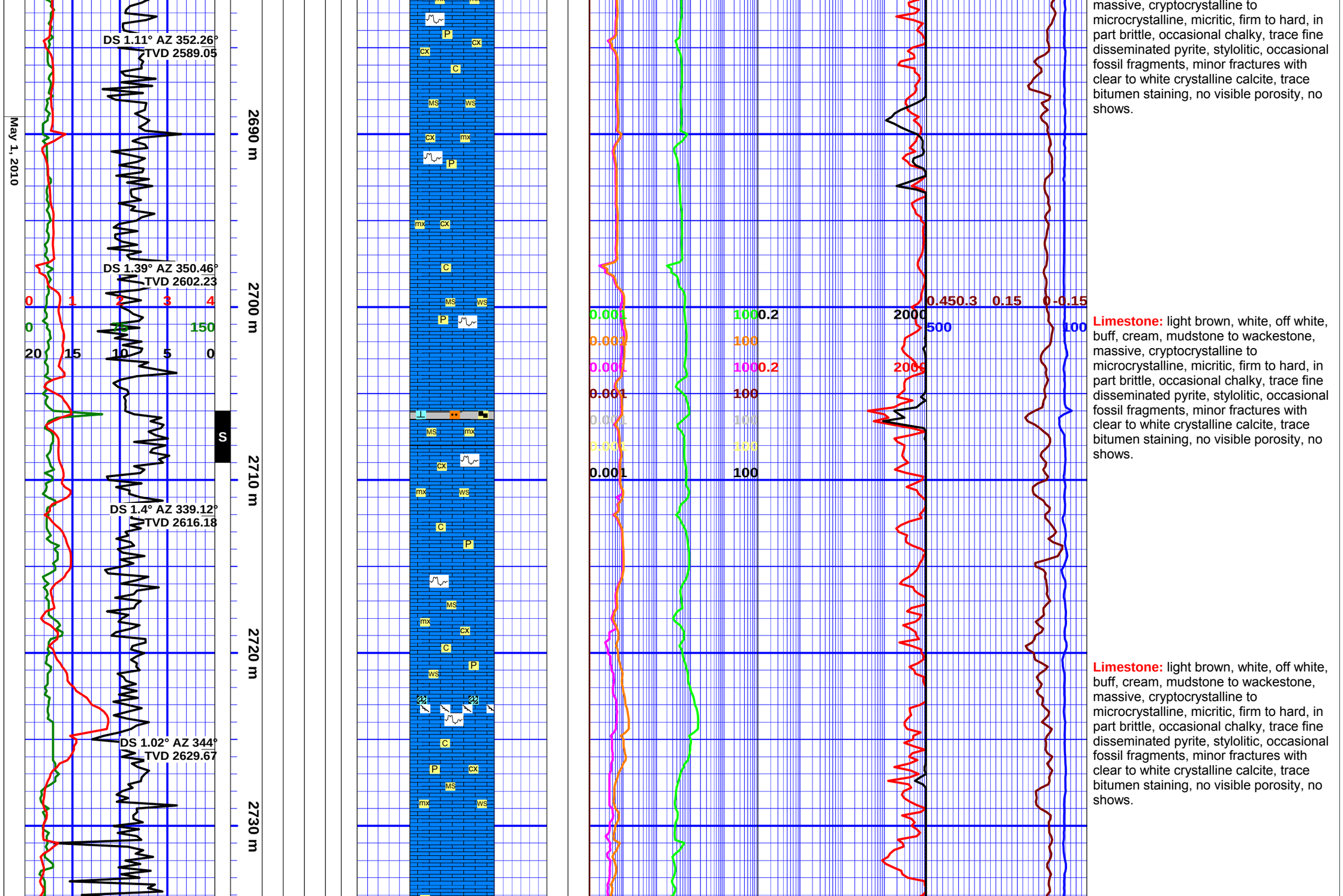


Limestone: light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

Limestone: light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

Shale: dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly calcareous, silty, frequent carbonaceous specks.

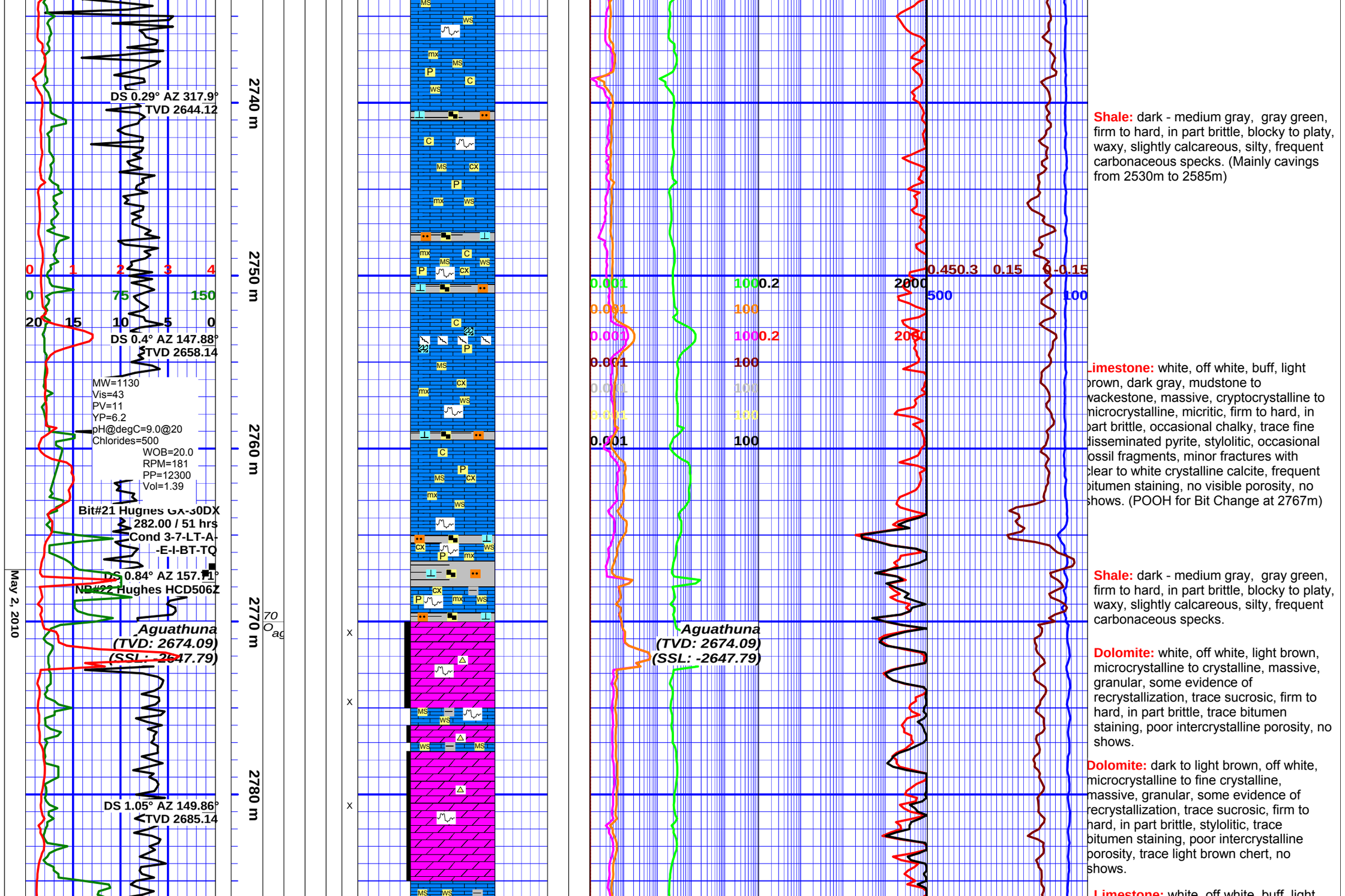
Limestone: light brown, white, off white, buff, cream, mudstone to wackestone,



massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

Limestone: light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.

Limestone: light brown, white, off white, buff, cream, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, trace bitumen staining, no visible porosity, no shows.



Shale: dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks. (Mainly cavings from 2530m to 2585m)

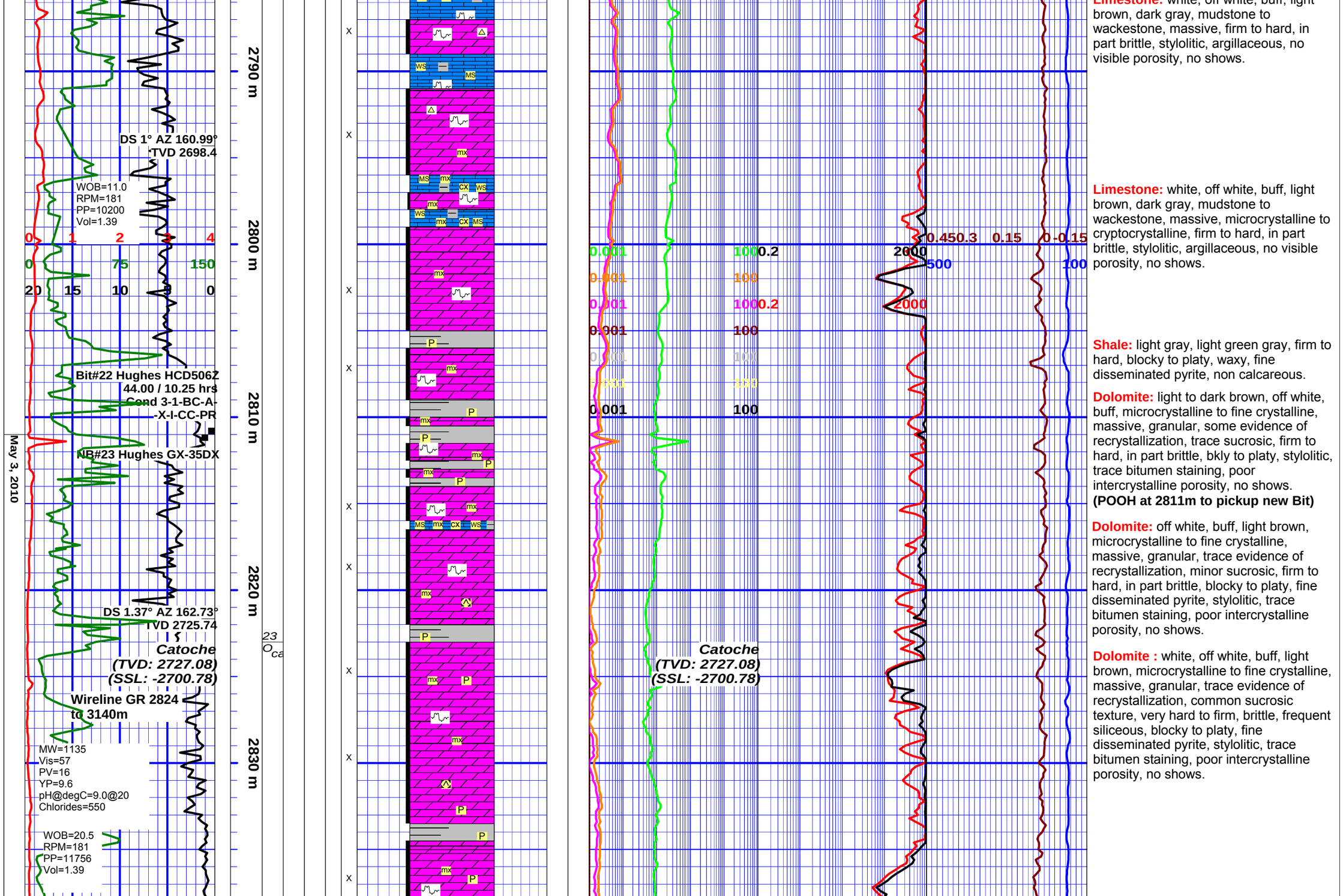
Limestone: white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, cryptocrystalline to microcrystalline, micritic, firm to hard, in part brittle, occasional chalky, trace fine disseminated pyrite, stylolitic, occasional fossil fragments, minor fractures with clear to white crystalline calcite, frequent bitumen staining, no visible porosity, no shows. (POOH for Bit Change at 2767m)

Shale: dark - medium gray, gray green, firm to hard, in part brittle, blocky to platy, waxy, slightly calcareous, silty, frequent carbonaceous specks.

Dolomite: white, off white, light brown, microcrystalline to crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, trace bitumen staining, poor intercrystalline porosity, no shows.

Dolomite: dark to light brown, off white, microcrystalline to fine crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, stylolitic, trace bitumen staining, poor intercrystalline porosity, trace light brown chert, no shows.

Limestone: white, off white, buff, light



Limestone: white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, in part brittle, stylolitic, argillaceous, no visible porosity, no shows.

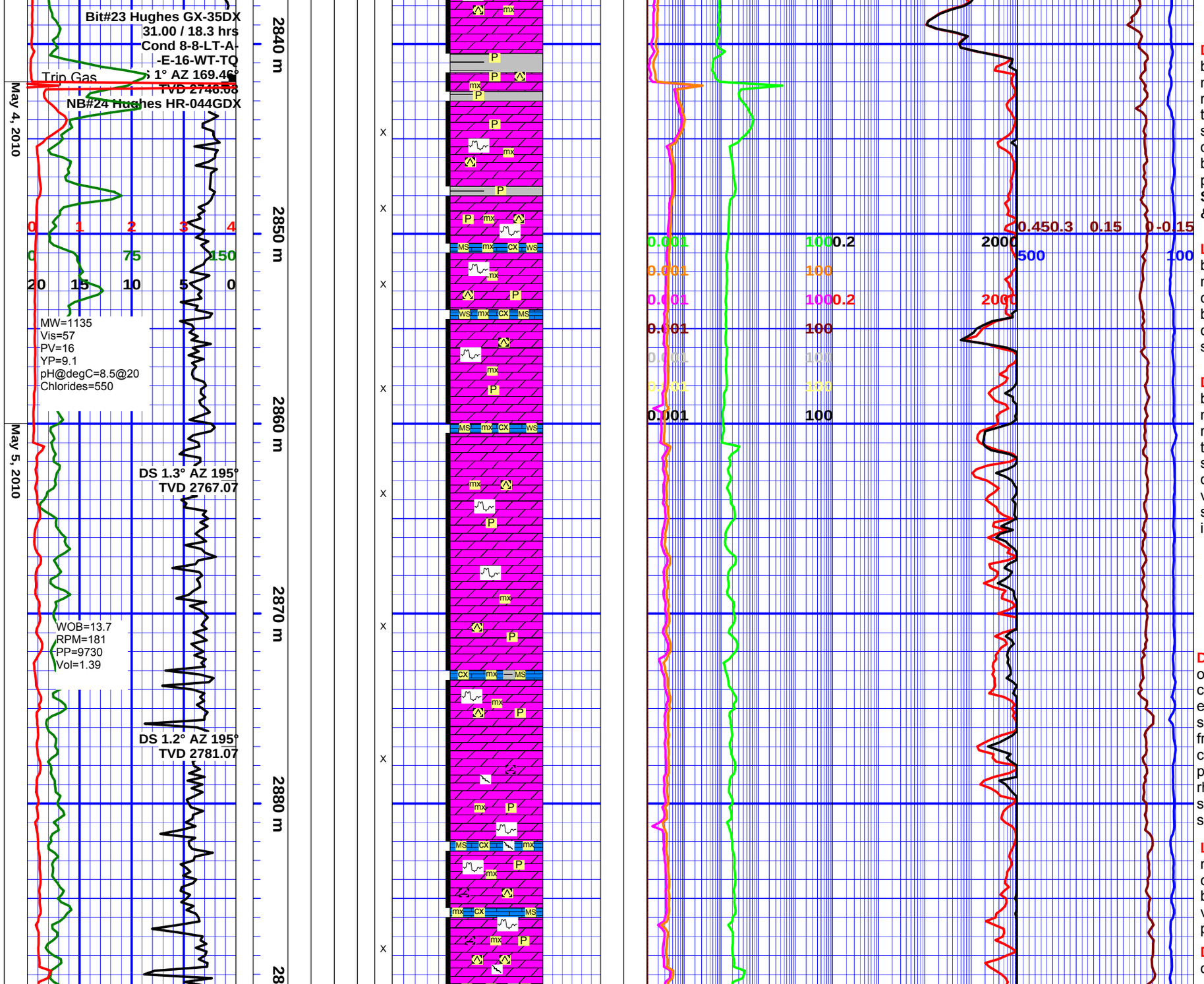
Limestone: white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, no visible porosity, no shows.

Shale: light gray, light green gray, firm to hard, blocky to platy, waxy, fine disseminated pyrite, non calcareous.

Dolomite: light to dark brown, off white, buff, microcrystalline to fine crystalline, massive, granular, some evidence of recrystallization, trace sucrosic, firm to hard, in part brittle, bkly to platy, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.
(POOH at 2811m to pickup new Bit)

Dolomite: off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, minor sucrosic, firm to hard, in part brittle, blocky to platy, fine disseminated pyrite, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.

Dolomite : white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, common sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, fine disseminated pyrite, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.



Dolomite : white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, common sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, fine disseminated pyrite, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows. **(POOH @ 2842m: Slow ROP. Lay down Directional Tool & Pickup new Bit.)**

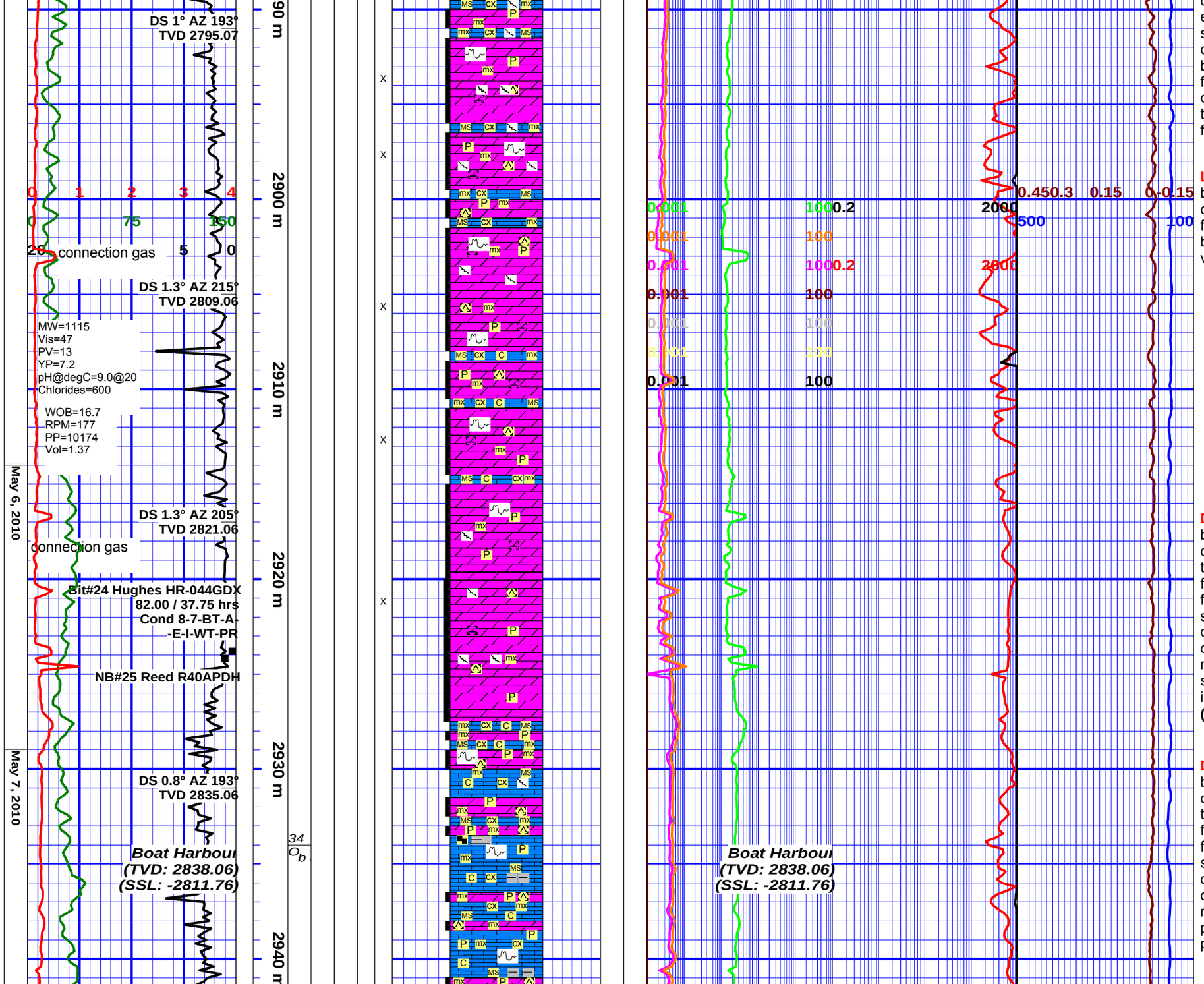
Limestone: cream, buff, gray, light brown, mudstone to wackestone, massive, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, argillaceous, trace clear calcite veining, no visible porosity, no shows.

Dolomite: white, off white, buff, light brown, microcrystalline to fine crystalline, massive, granular, trace evidence of recrystallization, common sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear rhombic crystals, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.

Dolomite: medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear rhombic crystals, stylolitic, trace bitumen staining, poor intercrystalline porosity, no shows.

Limestone: light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part brittle, stylolitic, trace clear calcite veining, grading dolomitic, no visible porosity, no shows.

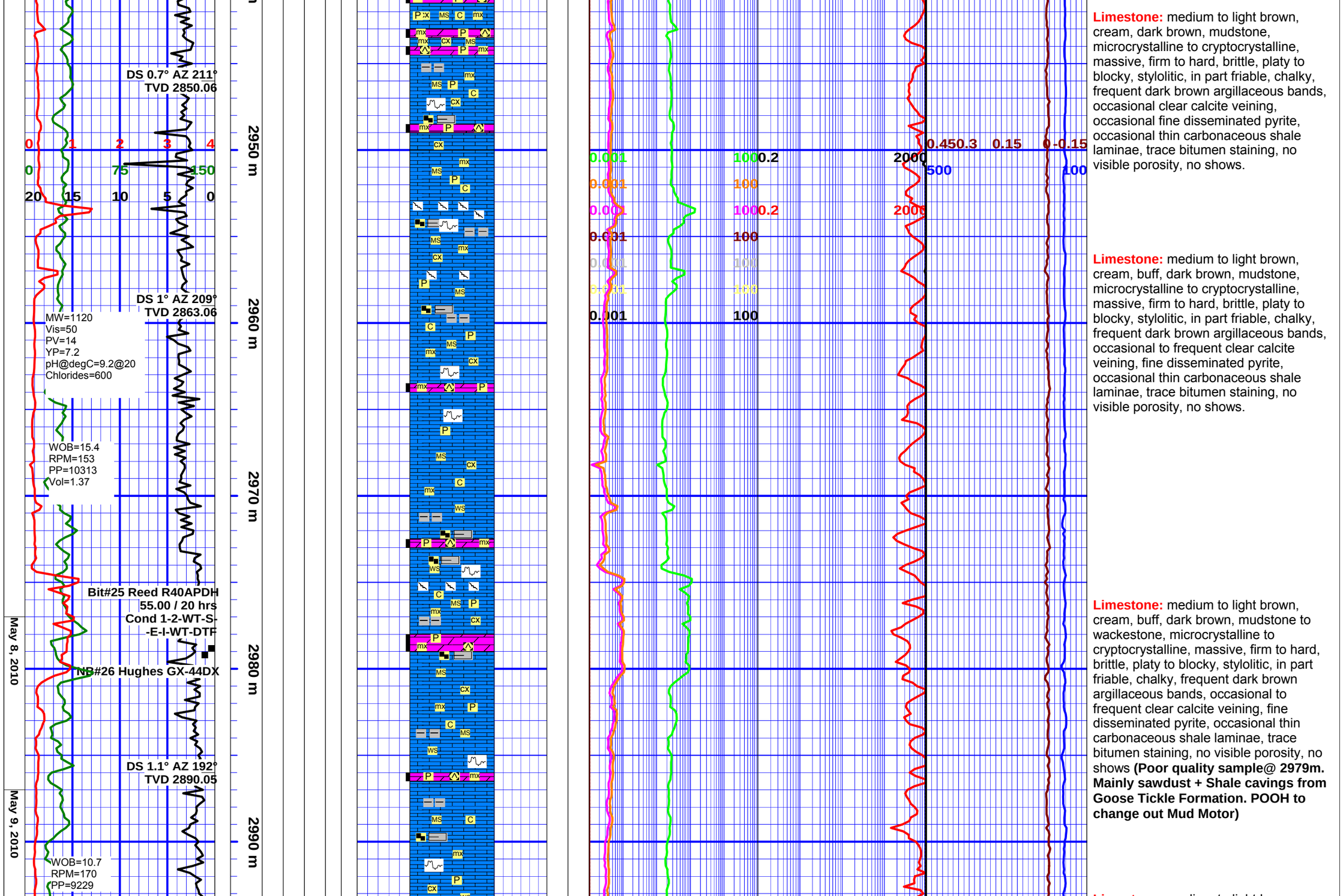
Dolomite: medium to dark brown, buff, off white, microcrystalline to coarse



Limestone: mottled light brown, cream, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, chalky, stylolitic with frequent bitumen staining, occasional clear calcite veining, no visible porosity, no shows.

Dolomite: mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, minor disseminated fine grained pyrite, occasional veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows. **(POOH for new BIT @ 2924m.)**

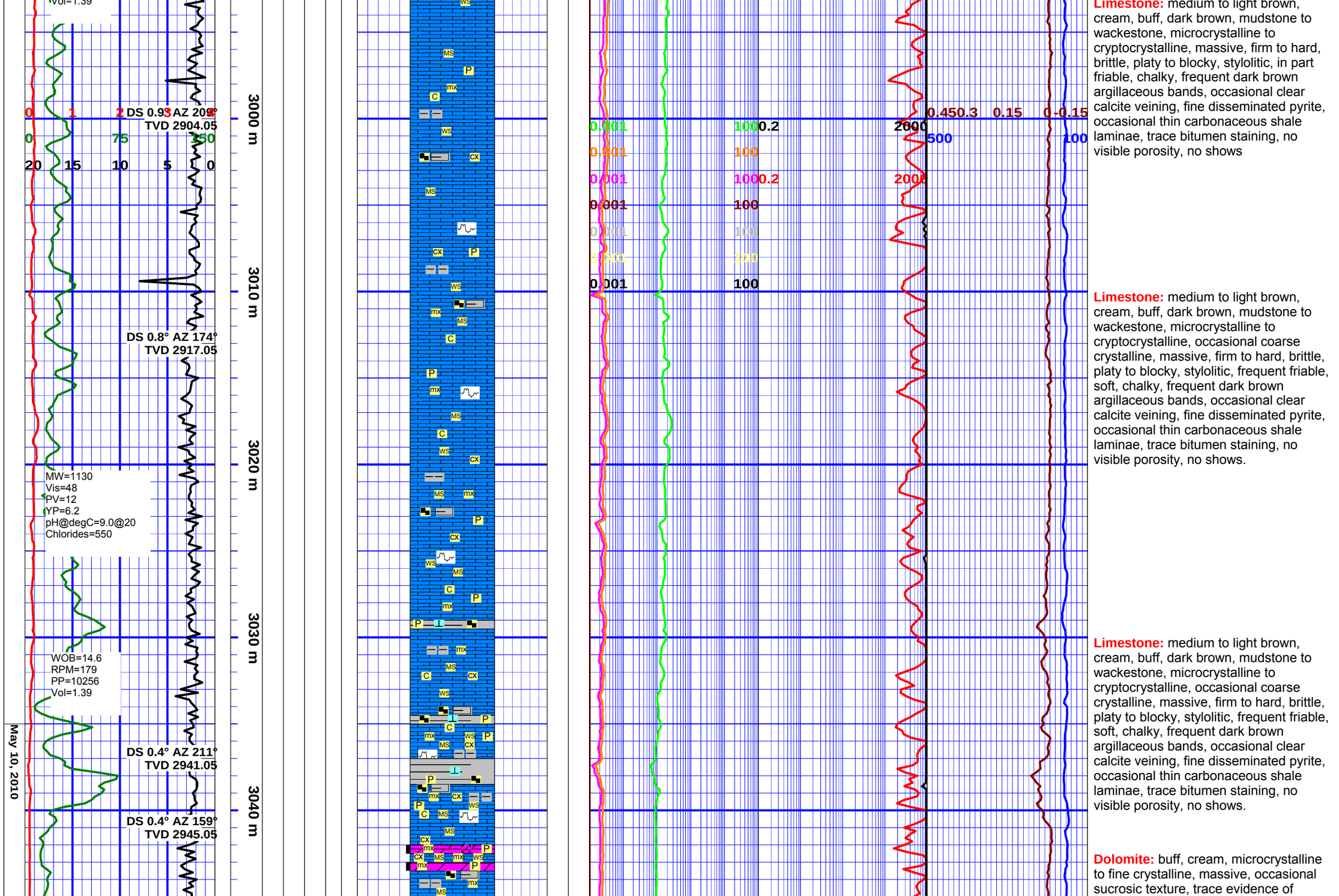
Dolomite: mottled medium to dark brown, buff, off white, microcrystalline to coarse crystalline, massive, granular, trace evidence of recrystallization, frequent sucrosic texture, very hard to firm cementation, brittle, frequent siliceous, blocky to platy, common disseminated fine grained pyrite, frequent veining with clear dolo-rhombic stringers, stylolitic, trace bitumen staining, poor to scattered fair intercrystalline porosity, no shows.



Limestone: medium to light brown, cream, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, occasional fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

Limestone: medium to light brown, cream, buff, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional to frequent clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

Limestone: medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional to frequent clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows **(Poor quality sample@ 2979m. Mainly sawdust + Shale cavings from Goose Tickle Formation. POOH to change out Mud Motor)**

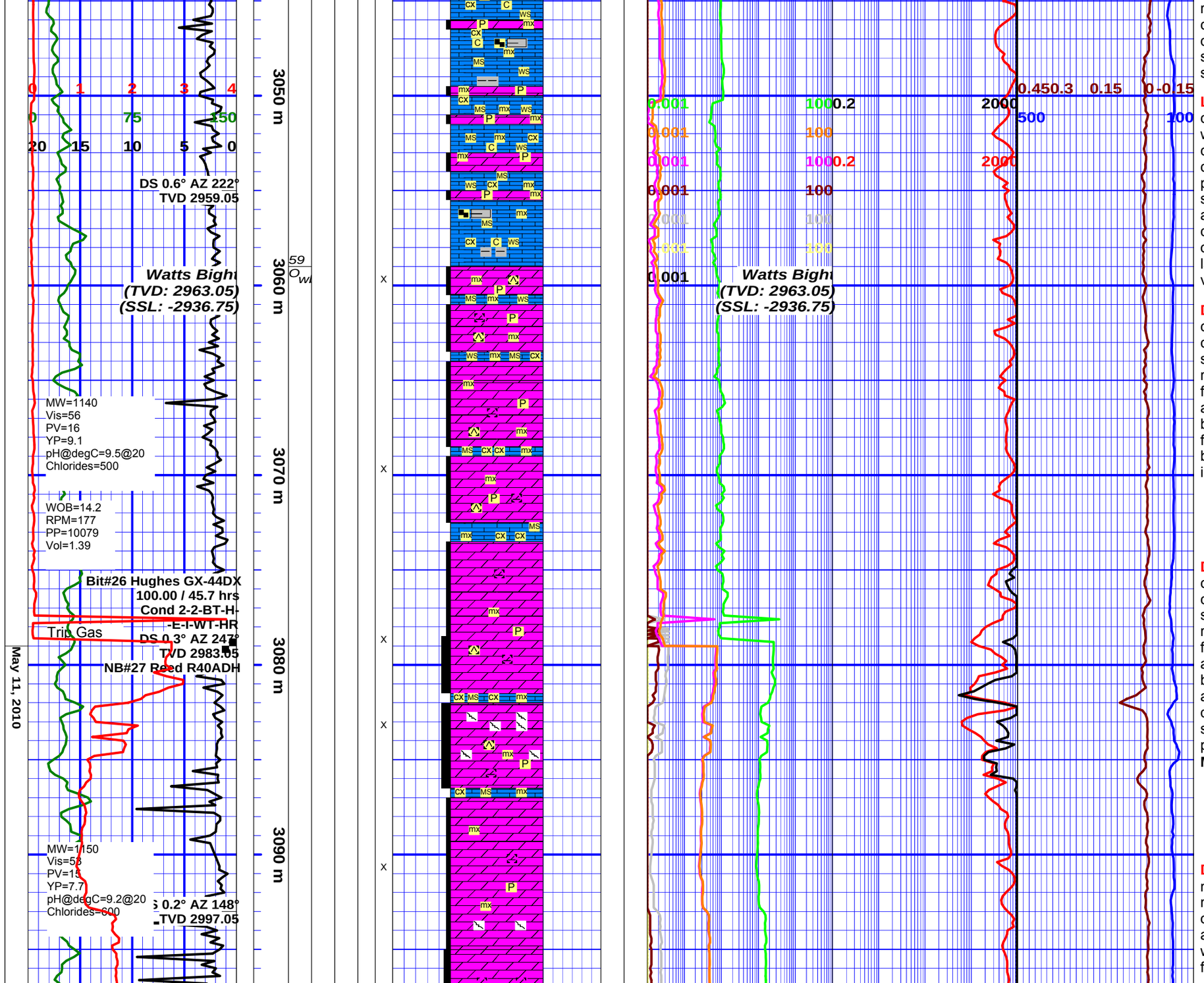


Limestone: medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, in part friable, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows

Limestone: medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

Limestone: medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

Dolomite: buff, cream, microcrystalline to fine crystalline, massive, occasional sucrosic texture, trace evidence of



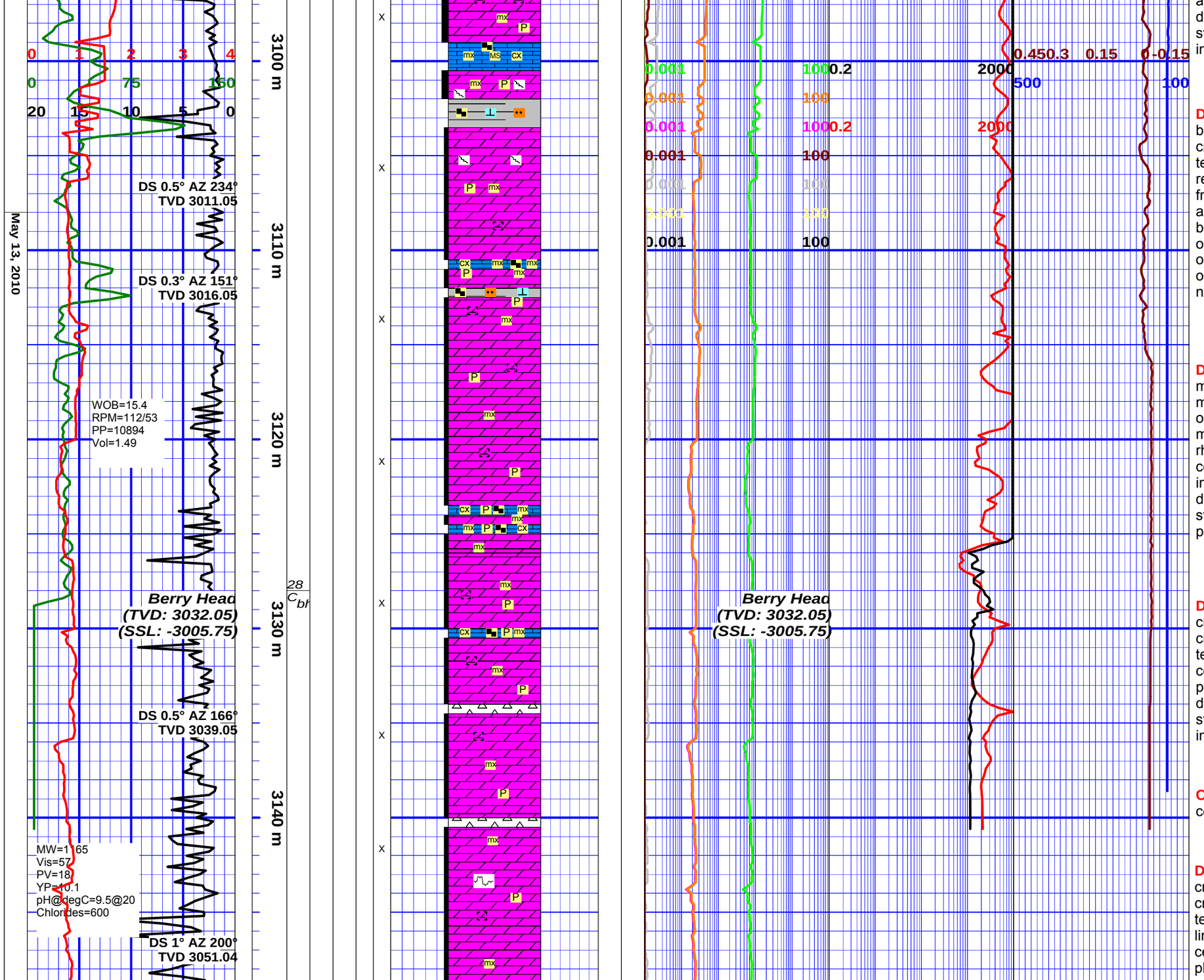
recrystallization, hard to firm cementation, brittle, platy, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

Limestone: medium to light brown, cream, buff, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, occasional coarse crystalline, massive, firm to hard, brittle, platy to blocky, stylolitic, frequent friable, soft, chalky, frequent dark brown argillaceous bands, occasional clear calcite veining, fine disseminated pyrite, occasional thin carbonaceous shale laminae, trace bitumen staining, no visible porosity, no shows.

Dolomite: light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sub sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.

Dolomite: light brown, off white, buff, cream, microcrystalline to abundant coarse crystalline, massive, frequent sub sucrosic texture, frequent evidence of recrystallization, occasional veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, slightly siliceous, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.**(POOH to change Mud Motor & Bit)**

Dolomite: off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub



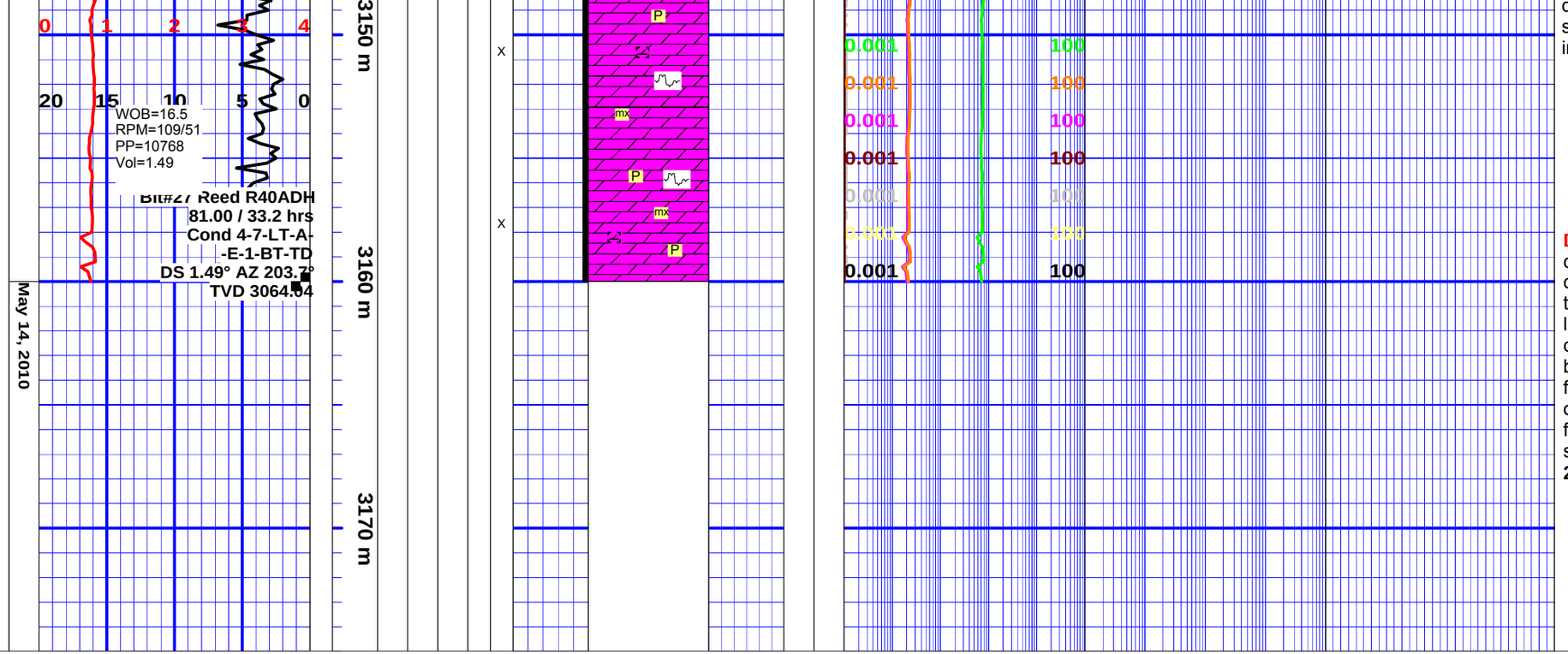
Dolomite: mottled light brown, off white, buff, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, occasional evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to occasional fair intercrystalline porosity, no shows.

Dolomite: white, off white, buff, cream, microcrystalline to fine crystalline, massive, common sucrosic texture, occasional evidence of recrystallization, minor veining with coarse white dolo-rhombic aggregates, hard to firm cementation, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, occasional bitumen staining, poor to fair intercrystalline porosity, no shows.

Dolomite: off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, hard to firm, moderate to well cemented with dolosparite, in part brittle, platy, occasional friable, minor fine disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

Chert: light brown, pale white, very hard, conchoidal.

Dolomite: off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, frequent sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, in part brittle, platy, occasional friable, minor fine



disseminated pyrite, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows.

Dolomite: off white, buff, light brown, cream, microcrystalline to coarse crystalline, massive, occasional sucrosic texture, common relic texture of original limestone, hard to firm, moderate to well cemented with dolosparite, abundant brittle, platy, occasional friable, frequent fine disseminated pyrite, stylolitic, occasional bitumen staining, poor to frequent fair intercrystalline porosity, no shows. **(FTD=3160m: 2010-05-14 at 20:10hrs)**

SCH Wireline:

Run#1: PEX-AIT: 3129m to 2292.5m
Run#2: DSI-FMI: 3129m to 1850m
Run#3: MDT-GR:2599m to 2602.5m
Run#4: VSI: 3158m to 600m

Appendix K

Wireline Logging Reports

Logging Report

P

Well Name	Wellsite Geologist(s)	Specialist(s) / Petrophysicist(s)	Date (mm/dd/yy)
Nalcor et al Seamus #1	Roland Strickland	Wayne Chipman & Erin Gillis	04/20/10

Wireline Contractor	Wireline Engineer(s)	Drilling Supervisor	Conveyance Method	Maximum Deviation (°)
Schlumberger	L.Conway & G. Au	Gord Stewart	Wireline	27.12

Requested Arrival Date (mm/dd/yy)	Requested Arrival Time (00:00)	Actual Arrival Date (mm/dd/yy)	Actual Arrival Time (00:00)	Field Cost
		04/20/2010	8:00	

Time Rig Up Commenced (mm/dd/yy 00:00)	Time Rig Down Completed (mm/dd/yy 00:00)	Driller Depth (m)	Logger Depth (m)	Difference (m)
04/20/2010 21:00	04/21/2010 14:00	2298.0	2296.8	-1.2

Interruptions in Logging Activities (Conditioning Trips, Hole Problems, Etc.)

Explanation	Interruption Start (mm/dd/yy 00:00)	Interruption End (mm/dd/yy 00:00)
Trouble Shooting 50V Plug	04/21/2010 9:00	04/21/2010 9:45

Service Summary, Failures and Log Quality

(Failures Must Be Non-Borehole Related)

Wireline Service	Run	Trip	Interval (m) Bottom	Interval (m) Top	Total Logged (m)	BHT (ºC)	Rig Up Time (00:00)	Rig Dwn Time (00:00)	Total Time (Hrs)	Lost Time (Hrs)	Calibration Failures/	Depth Control Failures?	Repeat Failures?	Logs Consistient With Offsets?	Tool Specific Failures/	Presentation Failures?	Log Quality Rating [1(poor) to 4(Excellent)]
Platform Express (Induction, SP, Neutron/Density, GR, 1-axis Caliper)	1	1	2296.8	599.5	1697.3	53	9:00	1:40	4.7		☐	☐	☐	☐	☐	☐	4
Dipole Shear Imager (DSI)	2	1	1870.0	599.5	1270.5	53	2:20	8:15	6.0		☐	☐	☐	☐	☐	☐	4
MDT - GR	3	1	1423.5	937.2	486.3	53	9:00	12:45	3.7		☐	☐	☐	☐	☐	☐	

Time Summary

Total Logging Time (hrs)	Total Lost Time (hrs)	Total Interruption Time (hrs)	Logging Efficiency (%)
14.4	0.0	0.8	100.0

Problems and Lost Time Details

Trouble Shoot 50V Plug for MDT Tool for 0.75 hrs.

Remarks

Run #1: (Platform Express): From 2296.8 to 599.5m. Caliper Log showed major Washout from 2200m to 1850m. Continuous washouts from 1850 to 599.5m. Logging run successful.
Run#2: (DSI): From 1870m to 599.5m. Logged successful. Logging started at 1870m because of severe hole washouts from 1870 to 2200m. Unable to run FMI tool because of washout conditions throughout the entire logging interval from 2296.5m to 599.5m.
Run#3: (MDT - GR): Made six (6) attempts to obtain pressure tests from 1423.5m to 937.2m. Unable to obtain a seal in the 4 different intervals.

Logging Report

P

Well Name	Wellsite Geologist(s)	Specialist(s) / Petrophysicist(s)	Date (mm/dd/yy)
Nalcor et al Seamus #1	Roland Strickland	Wayne Chipman & Erin Gillis	05/15/10

Wireline Contractor	Wireline Engineer(s)	Drilling Supervisor	Conveyance Method	Maximum Deviation (°)
Schlumberger	Frank Hinchey & G. Au	Bill Williams	Wireline	15.26

Requested Arrival Date (mm/dd/yy)	Requested Arrival Time (00:00)	Actual Arrival Date (mm/dd/yy)	Actual Arrival Time (00:00)	Field Cost
		05/15/2010	9:00	

Time Rig Up Commenced (mm/dd/yy 00:00)	Time Rig Down Completed (mm/dd/yy 00:00)	Driller Depth (m)	Logger Depth (m)	Difference (m)
05/15/2010 16:00	05/18/2010 07:30	3160.0	3129.2	-30.8

Interruptions in Logging Activities (Conditioning Trips, Hole Problems, Etc.)

Explanation	Interruption Start (mm/dd/yy 00:00)	Interruption End (mm/dd/yy 00:00)
Stuck in hole with DSI-FMI tools at 2449m	05/16/2010 06:30	05/16/2010 08:30
Stuck in hole with MDT tools at 2528m	05/16/2010 20:30	05/16/2010 22:30

Service Summary, Failures and Log Quality

(Failures Must Be Non-Borehole Related)

Wireline Service	Run	Trip	Interval (m) Bottom	Interval (m) Top	Total Logged (m)	BHT (ºC)	Rig Up Time (00:00)	Rig Dwn Time (00:00)	Total Time (Hrs)	Lost Time (Hrs)	Calibration Failures/	Depth Control Failures?	Repeat Failures?	Logs Consistient With Offsets?	Tool Specific Failures/	Presentation Failures?	Log Quality Rating [1(poor) to 4(Excellent)]
Platform Express (Induction, SP, Neutron/Density, GR, 1-axis Caliper)	1	1	3129.2	2292.5	836.7	53	16:30	21:15	5.3		☐	☐	☐	☐	☐	☐	4
Dipole Shear Imager (DSI) -FMI	2	1	3129.2	1800.0	1329.2	53	21:45	11:30	13.8		☐	☐	☐	☐	☐	☐	4
MDT - GR	3	1	2601.5	2599.0	2.5	53	13:00	23:30	10.5		☐	☐	☐	☐	☐	☐	
VSP Survey	4	1	3158.0	600.0	2558.0	53	13:30	7:30	13.5		☐	☐	☐	☐	☐	☐	4

Time Summary

Total Logging Time (hrs)	Total Lost Time (hrs)	Total Interruption Time (hrs)	Logging Efficiency (%)
39.1	0.0	4.0	100.0

Problems and Lost Time Details

Run #2: DSI - FMI: RIH to 3129.2 and begin logging out of hole to 2449m. Tools stuck for 2 hours. Tools became free with 200lbs overpull. Telemetry issues. Had to log FMI first, then drop back to 3129.2m and log DSI.

Run #3: MDT-GR: Attempted to obtain MDT pressure test & samples from 2602.5m to 2599m. POOH at 2528m. Stuck tools for 2 hours. Became free after 100% maximum overpull.

Rig conducted a 19 hour Wiper trip before conducting the VSP.

Remarks

Run #1: PEX-AIT: Only able to get tools to 3129.2m. Some obstruction preventing tools from reaching Driller's Depth at 3160m. Logged successfully to 2292.5m (Casing Shoe).
Run #2: DSI - FMI: RIH to 3129.2 and begin logging out of hole to 2449m. Tools stuck for 2 hours. Tools became free with 200 lbs overpull. Successfully logged FMI to 2292.5m and DSI to 1800m.
Run #3: MDT-GR: Set packer at 2602.5m. Very slow build up. Unable to obtain pressure test after 2.5 hours. Set packer at 2599m. Unable to obtain pressure test after 1 hour. POOH at 2528m. Stuck tools for 2 hours. Became free after 100% maximum overpull.
Run #4: VSP Survey with guns in a water pit: Successfully logged from 3158m to 600m.

Wireline Formation Test
Pressure Survey

Run/Trip	Date (mm/dd/yy)
3/1	04/21/2010

Well Name	Wellsite Geologist(s)	Petrophysicist(s)	Specialist Engineer(s)
Nalcor et al Seamus #1	Roland Strickland	Wayne Chipman/ Erin Gillis	F. Hinchey

Depths (m)				Formation	Deviation (°)	Hole Size (mm)	Log Porosity	Temperature (°C)
Bottom	1423.5	Top	937.2	Green Point & Shallow Bay	27.4	311	2-6	53.0

Formation Fluid Type						Drilling Fluid System				
☑	Gas	☐	Condensate	☑	Oil	☐	Water	☐	Oil Based	☑	Water Based	ppm

Tool Make-Up

☑ **MDT**		☐ **RCI**	
SGTL (Gamma Ray)	☐	Cablehead, TTRM Sub, GR, Power Section & Electronics.	
Power	☐	Single Packer Section	
Pumpout	☐	Draw Down Section	
Sample 1 Gallon X	☐	Pump Thru Section	
Sample 2.75 Gallon X	☐	Fluid Characterization	
Multi-Sample 6x450 cc	☐	Aux Power Section	
Flow Control	☐	Six Tank Section	
OFA	☐	Tank Control Section	
Hydraulics	☐	Extraction Sub	
Single Probe	☐	4 Litre Tank	
Dual Probe	☐	4 Litre Tank	
Dual Packer	☐	Sample View	
6 Gallon Sample	☐	R/C Sensor	

Remarks:

Survey Details

Objectives

Pressure Survey: ☐ Stratigraphic ☐ Gradients ☐ Fluid Contacts

Formation Sampling: ☐ Regular Sampling ☐ PVT Sampling

Permeability Estimation: ☐ Horizontal ☐ Anisotropy

Others (specify):

Pressure Survey

Time	Test #	Depth (m)	TVD (m)	Pretest Vol. (cc)	Hydrostatic Pressure (kPa)	Final Shut-In Pressure (kPa)	Calculated Perm. (md)	Comments
	1	1423.5	1406.3	10				No Seal
	2	1423.5	1406.3	20				No Seal:
	3	1420.5	1403.5	20				No Seal:
	4	1420.5	1403.5	20				No Seal:
	5	1414.0	1397.5	20				No Seal:
	6	937.2	932.7	20				No Seal:

P

Wireline Formation Test
Pressure Survey

Run/Trip	Date (mm/dd/yy)
3/1	05/16/2010

Well Name	Wellsite Geologist(s)	Petrophysicist(s)	Specialist Engineer(s)
Nalcor et al Seamus #1	Roland Strickland	Wayne Chipman/ Erin Gillis	Frank. Hinchey

Depths (m)				Formation	Deviation (°)	Hole Size (mm)	Log Porosity	Temperature (°C)
Bottom	2601.5	Top	2599.0	Table Cove	15.3	216	2-6	53.0

Formation Fluid Type						Drilling Fluid System				
☑	Gas	☐	Condensate	☑	Oil	☐	Water	☐	Oil Based	☑	Water Based	ppm

Tool Make-Up

☑ **MDT**		☐ **RCI**	
SGTL (Gamma Ray)	☐	Cablehead, TTRM Sub, GR, Power Section & Electronics.	
Power	☐	Single Packer Section	
Pumpout	☐	Draw Down Section	
Sample 1 Gallon X	☐	Pump Thru Section	
Sample 2.75 Gallon X	☐	Fluid Characterization	
Multi-Sample 6x450 cc	☐	Aux Power Section	
Flow Control	☐	Six Tank Section	
OFA	☐	Tank Control Section	
Hydraulics	☐	Extraction Sub	
Single Probe	☐	4 Litre Tank	
Dual Probe	☐	4 Litre Tank	
Dual Packer	☑	Sample View	
6 Gallon Sample	☐	R/C Sensor	

Survey Details

Objectives

Pressure Survey: ☐ Stratigraphic ☐ Gradients ☐ Fluid Contacts

Formation Sampling: ☐ Regular Sampling ☐ PVT Sampling

Permeability Estimation: ☐ Horizontal ☐ Anisotropy

Others (specify):

Pressure Survey

Time	Test #	Depth (m)	TVD (m)	Pretest Vol. (cc)	Hydrostatic Pressure (kPa)	Final Shut-In Pressure (kPa)	Calculated Perm. (md)	Comments
	1	2602.0	2506.0	20				Dry Test. Aborted after 2.5 hrs
	2	2599.0	2503.0	20				Dry Test. Aborted after 1.0 hrs

Remarks:

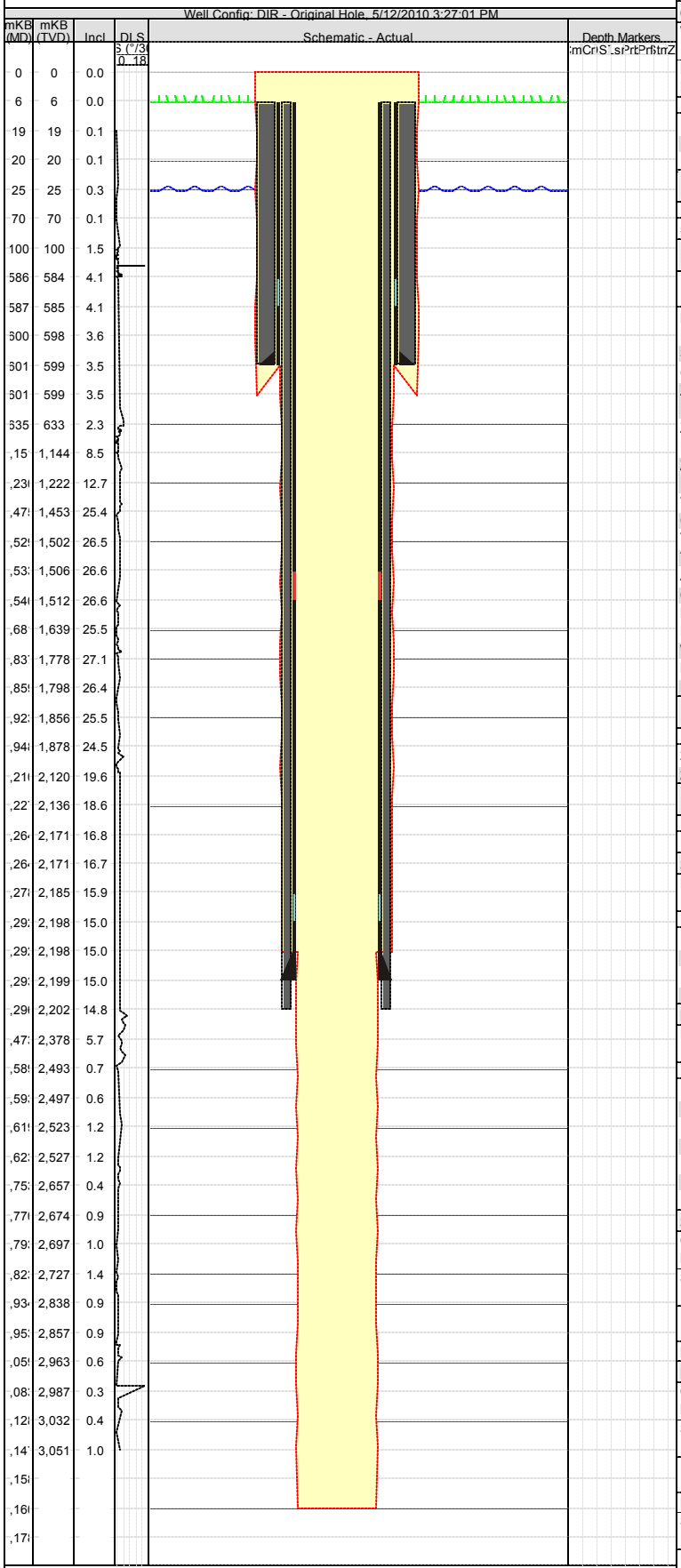
Run #3: MDT-GR: Set packer at 2602.5m. Very slow build up. Unable to obtain pressure test after 2.5 hours. Set packer at 2599m. Unable to obtain pressure test after 1 hour. POOH at 2528m. Stuck tools for 2 hours. Became free after 100% maximum overpull.

Appendix L

Complete Well Summary

Complete Well Summary

NALCOR ET AL. SEAMUS # 1.



API/UWI	Operator
n/a	NALCOR ENERGY - OIL & GAS INC

Original KB Elevation (m)	KB-Ground Distance (m)	Spud Date	Rig Release Date
27.00	6.30	2/15/2010	5/22/2010

Surface Legal Location	Latitude (DMS)	Longitude (DMS)
49:58:48.40N/057:41:59.10W	0° 0' 0" N	0° 0' 0" E

Original Hole

Wellbore API/UWI	Bottom Hole Legal Location	Profile Type	KO MD (mKB)	VS Dir (°)
		Directional	70.00	100.00

Proposed Deviation Survey	Deviation Survey
Ets Dir. survey for Original Hole	Ets Dir. survey for Original Hole

Size (mm)	Act Top (mKB)	Act Btm (mKB)
444.5	0.00	601.20
311.0	601.00	2,292.00
216.0	2,292.00	3,160.00

PBTDs

Date	Depth (mKB)	Method	Comment
5/20/2010	2,213.00	Tagged	

Formations

Formation Name	Geologic Age	Element Type	H2S (%)	Final Top MD (mKB)	Final Top TVD (mKB)
LOWER HEAD FM			0.00	20.00	20.00
SHALLOW BAY			0.00	635.00	632.64
GREEN PT FM			0.00	1,230.00	1,222.07
ZONE 1 (EAGLE ISLAND)			0.00	1,529.00	1,501.96
ZONE 2 (EAGLE ISLAND)			0.00	1,681.00	1,638.71
ZONE 3 (EAGLE ISLAND)			0.00	1,837.00	1,778.47
YELLOW POINT			0.00	1,923.00	1,855.55
GOOSE TICKLE			0.00	2,227.00	2,135.99
TABLE COVE			0.00	2,589.00	2,493.24
TABLE POINT			0.00	2,619.00	2,523.24
AGUATHUNA			0.00	2,770.00	2,674.21
CATOCHE			0.00	2,823.00	2,727.20
BOAT HARBOUR			0.00	2,934.00	2,838.18
WATTS BIGHT			0.00	3,059.00	2,963.36
BERRY HEAD			0.00	3,128.00	3,032.16
F TD				3,160.00	

Deviation Surveys

Date	Description	Prop?	Definitive?
2/16/2010	Ets Dir. survey for Original Hole	No	No
2/17/2010	Ets Dir. survey for Original Hole	No	No

Reservoirs

Reservoir Name	Depth Top (mKB)	Depth Btm (mKB)	Depth Res Datum (m (SS))

Surface, 601.00mKB

Run Date	Centralizers	Scratchers	Drift M...
3/8/2010	20		

OD (mm)	Item Description	Btm (mKB)	Jts	ID (mm)	Wt (daN)	Grade	Top Thread
339.7	Casing Joints	586.38	44	320.4	46,161.6	J-55	BTC
339.7	Float Collar	586.89	1	320.4	40.6	J-55	BTC
339.7	Casing Joints	600.43	1	320.4	1,076.9	J-55	BTC
339.7	Shoe	601.00	1	320.4	45.3	J-55	BTC

Intermediate, 2,292.50mKB

Run Date	Centralizers	Scratchers	Drift M...
4/24/2010			

OD (mm)	Item Description	Btm (mKB)	Jts	ID (mm)	Wt (daN)	Grade	Top Thread
244.5	Casing Joints	1,533.39	111	222.4	96,963.9	L-80	BTC
244.5	Marker Joint	1,539.92	1	222.4	414.5	L-80	BTC
244.5	Casing Joints	2,263.47	52	222.4	45,933.4	L-80	BTC
244.5	Float Collor	2,264.10	1	222.4	40.0	L-80	BTC
244.5	Casing Joints	2,277.98	1	222.4	881.1	L-80	BTC
244.5	Casing Joints	2,291.86	1	222.4	881.1	L-80	BTC
244.5	Float Shoe	2,292.50	1	222.4	40.6	L-80	BTC

Surface, casing, 3/6/2010 03:45

Cementing Company	Evaluation Method	Cement Evaluation Results
B J Services	Returns to Surface	

Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?
1		6.00	601.00	Yes

Fluid	Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	V (m³)	Fluid Des
Lead	A	86.5	0.770		46.70	neet Cement

Intermediate Casing Cement, casing, 4/24/2010 19:00

Cementing Company	Evaluation Method	Cement Evaluation Results
BJ Services Company	Returns to Surface	

Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?
1	Cemented with 100 T "G" Cement	6.00	2,296.00	Yes

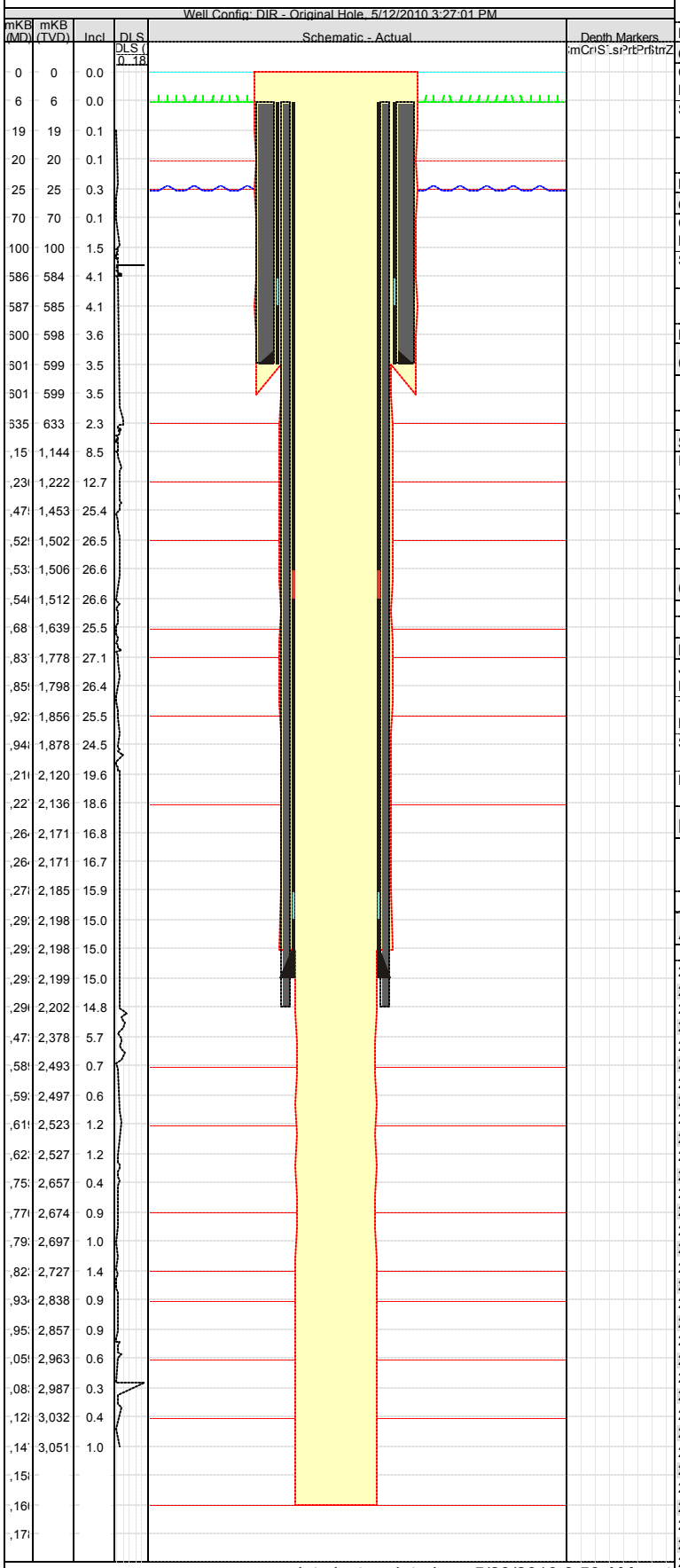
Fluid	Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	V (m³)	Fluid Des
Preflush	fill-light	1.1	2.730		3.00	

Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?
2				No

Fluid	Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	V (m³)	Fluid Des

Complete Well Summary

NALCOR ET AL. SEAMUS # 1.



Cement Plug, plug, 5/19/2010 00:00

Cementing Company	Evaluation Method	Cement Evaluation Results
BJ Services Company	None	

Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?
1	Cement Plug	3,110.00	3,160.00	Yes

Fluid	Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	V (m³)	Fluid Des
Lead	G	2.7	0.757		2.00	Cement

Cement Plug, plug, 5/19/2010 04:55

Cementing Company	Evaluation Method	Cement Evaluation Results
BJ Services Company	Tagged	

Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?
1	Cement Plug	2,303.00	2,142.00	Yes

Fluid	Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	V (m³)	Fluid Des
Lead	G		0.757		5.30	Neet cement

Cement Plug, plug, 5/19/2010 21:30

Cementing Company	Evaluation Method	Cement Evaluation Results
BJ Services Company	Tagged	

Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?
1	Cement Plug	2,213.00	2,303.00	Yes

Fluid	Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H20 Ratio (m³/tonnes)	V (m³)	Fluid Des
Lead	G		0.757		4.30	Neet cement

Other In Hole

OD (mm)	Description	Top (mKB)	Btm (mKB)	ID (mm)	Make	Model

SLIP LOCK, VETCO on 3/6/2010 8:00:00 PM

Install Date	Type	Make	WP (kPa)	Size (mm)	Last Overhaul ...
3/6/2010	SLIP LOCK	VETCO	34,000	13.6	

Wellhead Components

Make	Model	S...	Top Conn	Top Sz (mm)	Btm Conn	Btm Sz (mm)	Description	WP (kPa)

General Notes

Date	Comment

Drilling, 2/13/2010 00:00

Job Category	Primary Job Type	Start Date	End Date	Cost Type
Drilling	Drilling	2/13/2010		Capitalize

Target Formation	Tgt Depth (m...	AFE Number	Total AFE	Total Cost	Final Inv. Cost
Berry Head	3,177.60	6220 1001	7,957,400.00	9,256,117.51	

Summary

Possible Cost Savings	Poss Time Save (hrs)	Estimated Problem Cost	Est Lost Time (hrs)

Phases

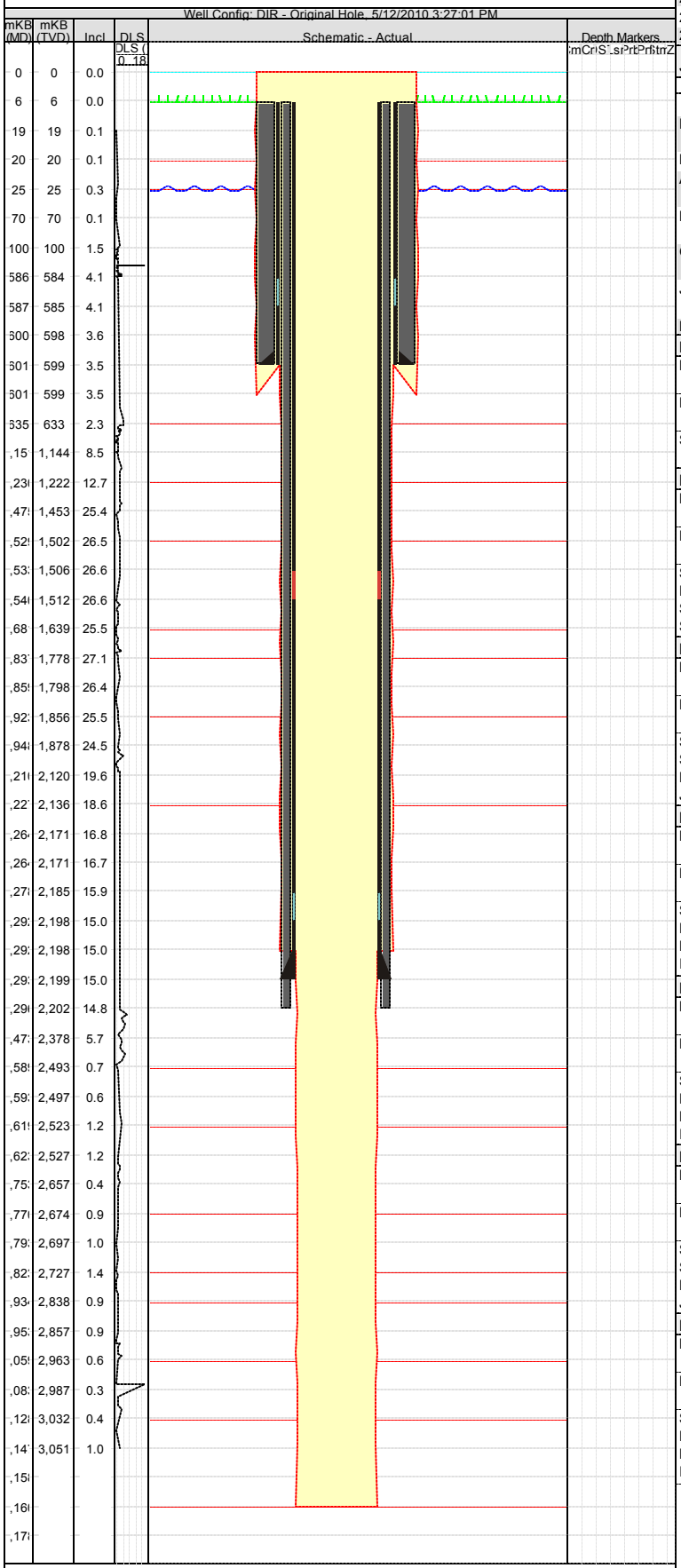
Phase Type 1	Planned Likely Phase Cost	Pl Cum Days ML (days)	Planned End Depth (mKB)

AFE Costs

Code 1	Code 2	Code 3	Cost Description	Amount
2028	4005		Land and Legal Costs (including damage)	30,000.00
2028	4020		Location (survey, pad, roads, etc)	260,000.00
2028	4220		Well Control Insurance	20,000.00
2028	4055		Water Well	20,000.00
2028	4030		Reclamation/Site Clean Up	200,000.00
2028	4035		Environmental Expense	20,000.00
2028	4040		Rig Mob. & De Mob.	540,000.00
2028	4050		Drilling: Daywork	789,600.00
2028	4050		Drilling: Rig Up / Down	49,680.00
2028	4205		Wellsite Supervision	186,000.00
2028	4070		Travel and Subsistence	102,000.00
2028	4075		Bits	386,000.00
2028	4085		Mud-Chemicals	370,000.00
2028	4060		Fuel/Lube Oil	250,968.00
2028	4080		Miscellaneous Consumables	4,000.00
2028	4135		Directional Services	292,000.00
2028	4175		Rentals	880,900.00
2028	4120		Casing Services	90,000.00
2028	4225		Miscellaneous Drilling Services	268,500.00
2028	4185		Transportation	160,000.00
2028	4125		Conductor Pipe	10,000.00
2028	4090		Surface Casing Cementing	78,000.00
2028	4100		Intermediate Casing Cementing	76,000.00
2028	4110		Liner	24,000.00
2028	4125		Cementing Equipment	47,000.00
2028	4160		Open Hole Logs	264,000.00
2028	4160		Mud Logger	125,000.00
2028	4170		Drill Stem Testing	50,000.00
2028	4170		Other Formation Evaluation / Analysis	3,000.00
2028	4200		Geological Supervision	72,000.00
2028	4045		Conductor	3,400.00
2028	4090		Surface Casing	154,100.00
2028	4100		Intermediate strg(s)	522,600.00
2028	4100		Production Casing Cementing	79,200.00
2038	5510		Hangers	39,000.00
2038	5505		Casing Head Housings	26,000.00

Complete Well Summary

NALCOR ET AL. SEAMUS # 1.



AFE Costs

Code 1	Code 2	Code 3	Cost Description	Amount
2038	5505		Christmas Tree	13,000.00
2038	5505		Misc Wellhead Equipment	3,000.00
2038	5520		Valves and Fittings	4,000.00
2028	4230		Contingency	1,026,942.00
2028	4240		Overhead	84,177.00
2028	4215		Project Engineering	333,333.00

Job Contacts

Contact Name	Company	Title	Office	Mobile
Roland Strickland	Consultant	Wellsite Geologist		709 649 9795
Bob Washington	Halliburton/Bariod	Mud Engineer		587 785 8388
Allan Albertson	RPS Energy	Drilling Ops Manager		403 390 9975
Bill Williams	RPS Energy	Wellsite Supervisor		709 765 1074
Gordon Stewart	RPS Energy	Wellsite Supervisor		403 318 3621
Jeff Imrie	RPS Energy	Wellsite Supervisor		403 771 9498
Martin Gould	Stoneham Drililng	Rig Manager		709 765 0635

BHA #1, <Drill String Name?>

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
1				-------

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
					-------

String Components

BHA #2, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
2	444.5	PS33	---	-------

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
20.00	202.00	151.00	77.75	77.75	-------

String Components
HUGHES PS33, NB STAB, SHOCK SUB, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #3, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
3	444.5	G15BODCPS	4-4-5-	-------

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
203.00	258.00	55.00	31.50	31.50	-------

String Components
SMITH G15BODCPS, MOTOR HS, FLOAT SUB, DC-NM, STRING STABLIZER, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #4, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
4	444.5	GTX-40	6-1-5-	4-6-FC-A-E-1.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
258.00	400.00	141.00	62.25	62.25	4-6-FC-A-E-1.00-...

String Components
HUGHES GTX-40, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #5, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
5	444.5	5HOA598-7086	5-1-5-	1-3-FC-G-E-0.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
400.00	504.00	103.00	48.50	48.50	1-3-FC-G-E-0.00-...

String Components
REED 5HOA598-7086, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #6, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
6	444.5	XR+	1-1-5-	-----0.00--

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
504.00	560.00	56.00	26.75	26.75	-----0.00--

String Components
SMITH XR+, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #7, Drilling Assembly

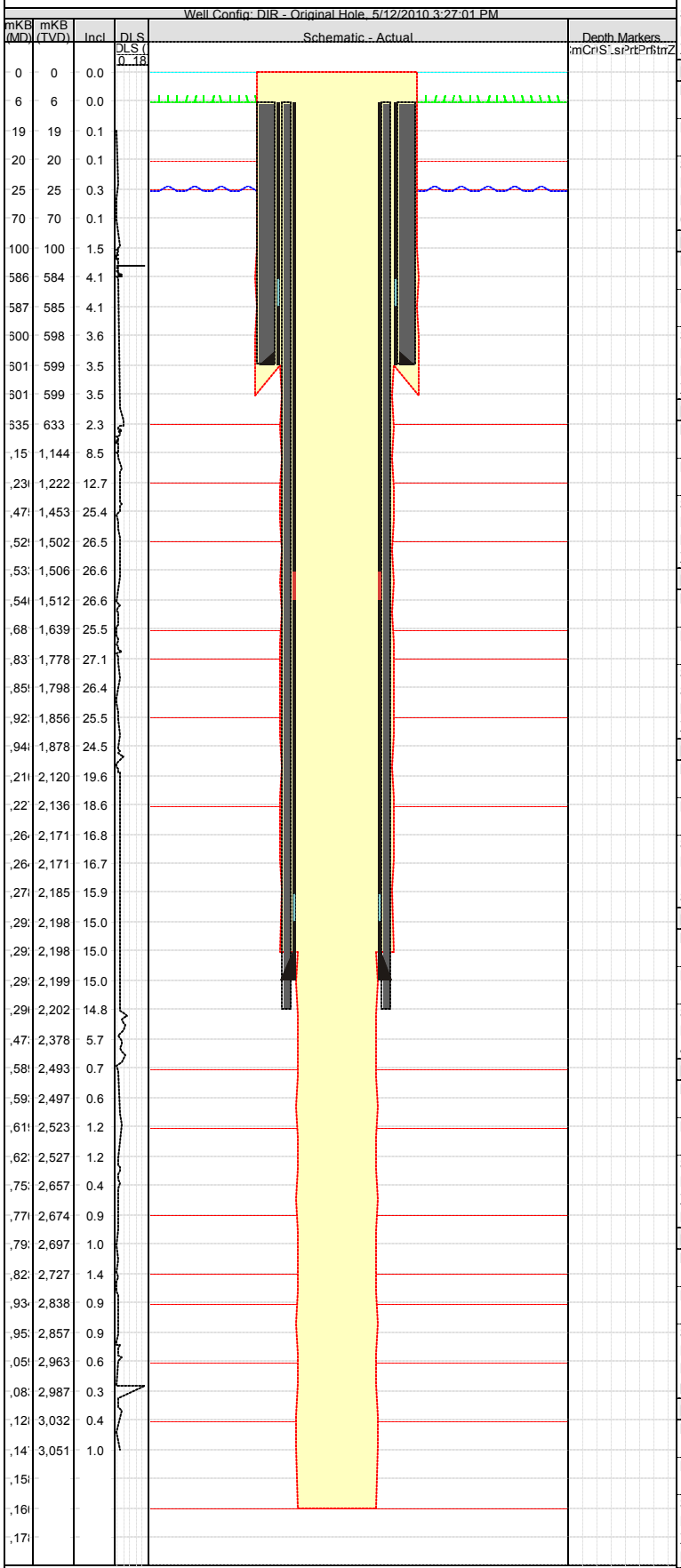
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
7	444.5	5HOA598-7086	5-1-5-	3-4-FC-A-E-8.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
560.00	601.20	41.20	15.00	63.50	3-4-FC-A-E-8.00-...

String Components
REED 5HOA598-7086, MOTOR HS, FLOAT SUB, STRING STABLIZER, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), STRING STABLIZER, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Complete Well Summary

NALCOR ET AL. SEAMUS # 1.



BHA #8, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
8	311.0	XR+	1-1-7-	5-7-WT-A-E-311.0...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
601.00	699.00	98.00	43.00	43.00	5-7-WT-A-E-311.0...

String Components
SMITH XR+, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #9, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
9	311.0	GX-35DX	5-4-7-	1-1-NO-A-4-311.0...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
700.00	896.00	182.54	57.75	57.75	1-1-NO-A-4-311.00...

String Components
HUGHES GX-35DX, MOTOR HS, STRING STABLIZER, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, BELL SUB, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #10, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
10	311.0	HCD506Z	---	2-2-CC-H-X-2.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
899.00	1,036.00	268.00	44.00	44.00	2-2-CC-H-X-2.00-...

String Components
HUGHES HCD506Z, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #11, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
11	311.0	GX-35DX	5-3-7-	-------

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
1,036.00	1,076.00	40.00	18.25	18.25	-------

String Components
HUGHES GX-35DX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #12, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
12	311.0	MSi816WBPX	---	0-0-NO-A-X-0-N...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
1,076.00	1,283.00	207.00	84.25	84.25	0-0-NO-A-X-0-NO...

String Components
SMITH MSi816WBPX, STABILIZED CC, FLOAT SUB, UBHO, NMDC/TOOL CARRIER, NMDC, DC-PONY, DC-PONY, DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD, X/O, DC (8.00 IN), DC (8.00 IN), X/O, X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #13, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
13	311.0	GX-35DX	5-3-7-	2-2-FC-A-E-1.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
1,294.00	1,386.00	92.00	46.25	64.50	2-2-FC-A-E-1.00-...

String Components
HUGHES GX-35DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #14, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
14	311.0	HCM608	---	4-5-BT-A-X-0-LT-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
1,386.00	1,433.00	47.00	26.25	26.25	4-5-BT-A-X-0-LT-...

String Components
HUGHES HCM608, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #15, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
15	311.0	M4249ZPD2T	5-3-7-	8-8-WT-A-F-1.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
1,433.00	1,552.00	119.00	42.50	42.50	8-8-WT-A-F-1.00-...

String Components
REED M4249ZPD2T, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #16, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
16	311.0	S55RDX	6-3-7-	2-2-NO-A-E-1-N...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
1,552.00	1,701.00	146.00	62.75	62.75	2-2-NO-A-E-1-NO...

String Components
HUGHES S55RDX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #17, Drilling Assembly

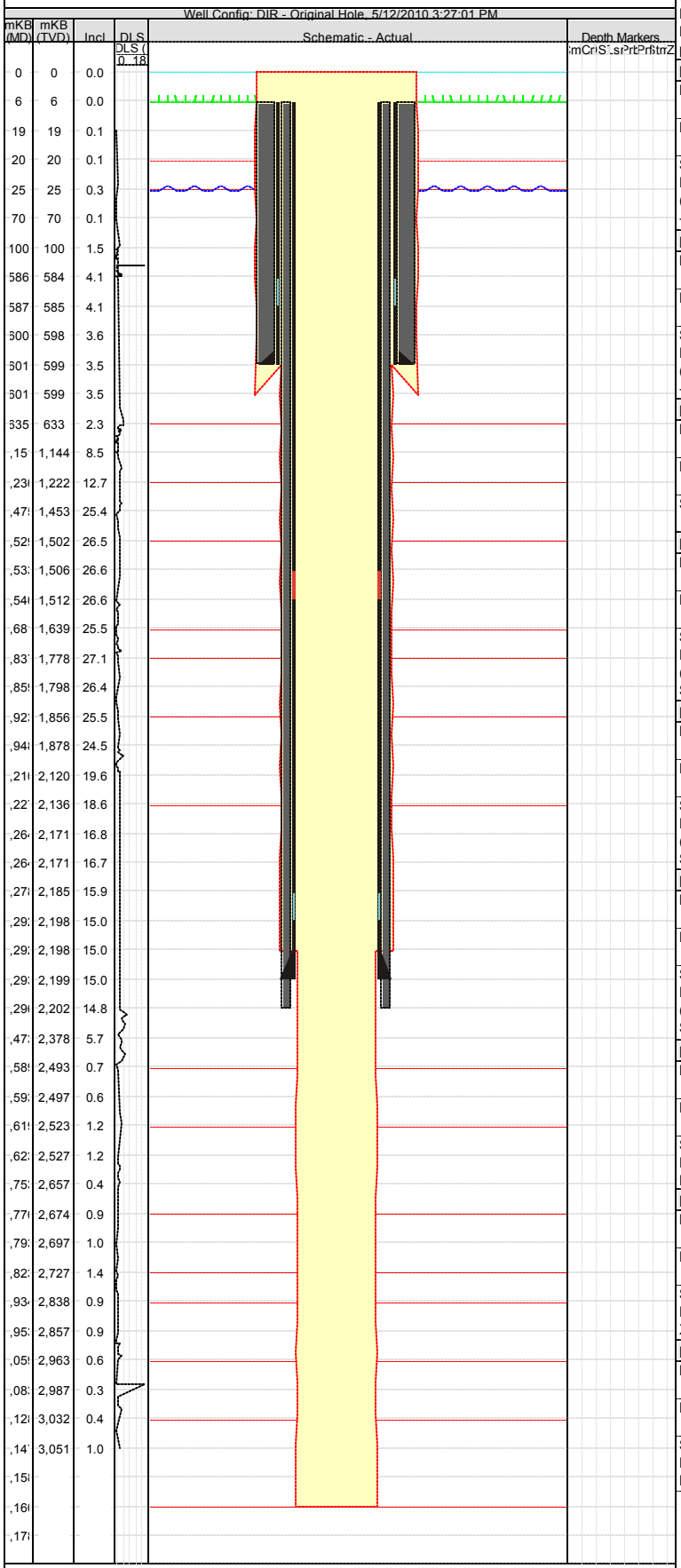
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
17	311.0	GX-44DX	6-1-7-	1-1-WT-A-F-0--HR

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
1,701.00	1,908.00	207.00	78.25	78.25	1-1-WT-A-F-0--HR

String Components
HUGHES GX-44DX, MOTOR HS, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Complete Well Summary

NALCOR ET AL. SEAMUS # 1.



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BHA #18, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
18	311.0	GX-44DX	6-1-7-	1-1-NO-A-5-0-NO...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
1,908.00	2,044.00	112.00	61.75	61.75	1-1-NO-A-5-0-NO-...

String Components
HUGHES GX-44DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, UBHO, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #19, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
19	311.0	GX-35DX	5-3-7-	2-2-FC-H-2-0.50-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,044.00	2,179.00	127.00	66.75	66.75	2-2-FC-H-2-0.50-...

String Components
HUGHES GX-35DX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #20, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
20	311.0	GX-30MDX	5-3-7-	1-1-WT-H-E-1.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,179.00	2,298.00	119.00	53.25	53.25	1-1-WT-H-E-1.00-...

String Components
HUGHES GX-30MDX, POWER DRIVE 900, X/O SUB, FLOAT SUB, SLIM PLUSE, NMDC, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB //X/O, DC (6.50 IN), X/O, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #21, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
21	311.0	GX-35DX	5-3-7-	-------

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
				0.00	-------

String Components
HUGHES GX-35DX

BHA #22, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
22	216.0	GX35DX	5-3-7-	-------

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,298.00	2,485.00	321.00	56.25	56.25	-------

String Components
HUGHES GX35DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #23, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
23	216.0	GX-30DX	5-3-7-	-------

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,485.00	2,767.00	240.00	51.00	51.00	-------

String Components
HUGHES GX-30DX, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #24, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
24	216.0	HCD506Z	5-4-7-	3-3-CT-A-X-0-WT...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,767.00	2,811.00	25.00	10.25	10.25	3-3-CT-A-X-0-WT-...

String Components
HUGHES HCD506Z, MOTOR LS, FLOAT SUB, DC-NM PONY, 6.75\ NMDC W/MWD, 6.75\ NMDC, X/O, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #25, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
25	216.0	GX-35DX	5-4-7-	8-8-LT-A-E-16.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,811.00	2,842.00	29.00	19.25	19.25	8-8-LT-A-E-16.00-...

String Components
HUGHES GX-35DX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #26, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
26	216.0	HR-044GDX	6-1-7-	8-8-LT-A-E-16.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,842.00	2,924.00	71.00	37.75	37.75	8-8-LT-A-E-16.00-...

String Components
HUGHES HR-044GDX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #27, Drilling Assembly

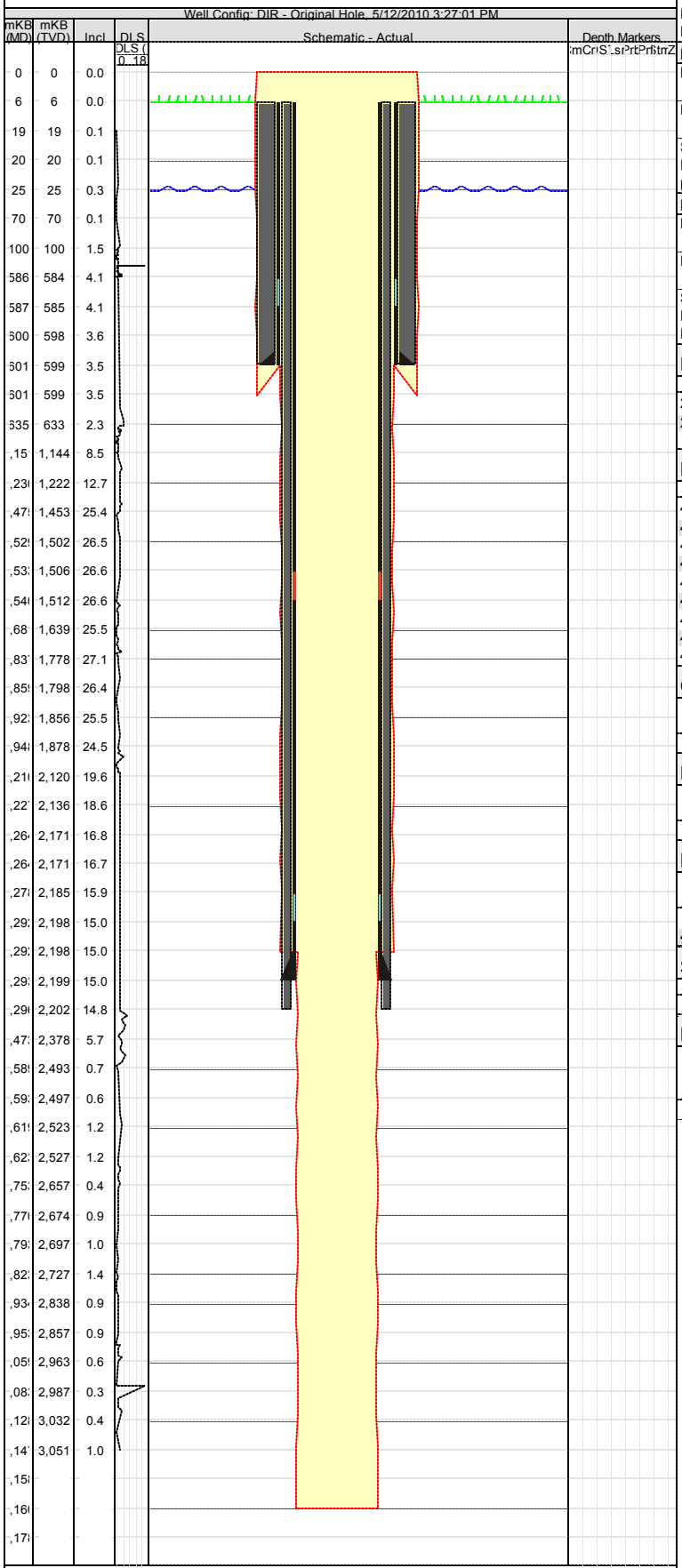
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
27	216.0	R40APDH	6-1-7-	1-2-WT-S-E-0.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,924.00	2,977.00	53.00	18.75	18.75	1-2-WT-S-E-0.00-...

String Components
REED R40APDH, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

Complete Well Summary

NALCOR ET AL. SEAMUS # 1.



BHA #28, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
28	216.0	GX-44DX	6-1-7-	2-2-BT-H-E-0.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
2,979.00	3,079.00	90.00	44.50	44.50	2-2-BT-H-E-0.00-...

String Components
HUGHES GX-44DX, MOTOR LS, FLOAT SUB, X/O, TELEDRIFT, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), XO, HWDP(5.0 IN), Drill pipe - Stands, Drill pipe - Singles

BHA #29, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
29	216.0	R40ADH	6-1-7-	4-7-LT-A-E-0.00-...

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
3,079.00	3,160.00	81.00	32.75	32.75	4-7-LT-A-E-0.00-B...

String Components
REED R40ADH, BIT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, HWDP(5.0 IN)-+, Drill pipe - Stands, Drill pipe - Singles

BHA #30, Drilling Assembly

BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull
30	216.0	GX-44DX	6-1-7-	-------

Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...	Bit Hrs Out ...	IADC Bit Dull
				0.00	-------

String Components
HUGHES GX-44DX, BIT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, HWDP(5.0 IN)-+, Drill pipe - Stands, Drill pipe - Singles

Deviation Surveys

Date	Description
2/16/2010	Ets Dir. survey for Original Hole
2/17/2010	Ets Dir. survey for Original Hole

Logs

Date	Type	Top (mKB)	Btm (mKB)	Logging Company
4/20/2010	Compensated Density	599.50	2,296.80	Schlumberger Wireline & Test...
4/21/2010	Acoustic	599.50	2,296.80	Schlumberger Wireline & Test...
4/21/2010	Caliper	599.50	2,296.80	Schlumberger Wireline & Test...
4/21/2010	Caliper	599.50	2,296.80	Schlumberger Wireline & Test...
4/21/2010	Compensated Neutron	599.50	2,296.80	Schlumberger Wireline & Test...
4/21/2010	Formation Tester	599.50	2,296.80	Schlumberger Wireline & Test...
4/21/2010	Gamma Ray	599.50	2,296.80	Schlumberger Wireline & Test...
4/21/2010	Gamma Ray	599.50	2,296.80	Schlumberger Wireline & Test...
4/21/2010	Induction	599.50	2,296.80	Schlumberger Wireline & Test...

Cores

Core No.	Type	Top (mKB)	Btm (mKB)	Recov (m)	Wellbore

DST Data

Date	Type	Zone	Depth Top (mKB)	Depth Btm (mKB)

Leak Off and Formation Integrity Tests

Test Date	Last Casing String Run	P (Surf) (kPa)	Depth (mKB)	Dens Fluid (kg/m³)	Leak off?
					No
4/26/2010	Intermediate, 2,292.50mKB	21,000	2,210.00	1100.0	Yes

Schematic Annotations

Depth (mKB)	Annotation
3,160.00	

Equipment Problems

Failure Date	Failure Description	Type	Cause	Failed Item	Resolved Date	Est Fail Cost

Appendix M

Surface Hole Recap

NALCOR

SURFACE HOLE RECAP OF OPERATIONS

SEAMUS ET AL #1
FEBRUARY - MARCH 2010

Executive Summary Surface Hole Section 444mm

Nalcor et al Seamus #1 was spudded at 22:30 on Feb 15/2010 utilizing a 444mm bit. Surface hole was drilled to a total depth of 601m. The well was drilled at an elevation of approximately 20.70m and was located about 8 km north of the town of Cow Head just off of the main highway.

Drill rig Stoneham #11 was used to drill the well. Surface hole was spudded into the Humbar Arm Allohon shale and carried on through the Lower head Formation (a mix of sandstone and shale) which was encountered at 25m actual depth.

Theo only unscheduled event was at a depth of 258m when the shock sub came apart leaving a 24m fish in the hole. After waiting for approximately one day for fishing tools; a fishing bottom hole assembly was ran in the hole and the fish was easily recovered.

After the fishing operation the surface hole was drilled slowly to a final depth of 601.2m on March 5/2010 at 05:45. The well was circulated clean and 339.7mm surface casing was ran and cemented in place. Total days to drill surface hole was just over 18 days with an additional 3 days to run casing, cement casing, rig in the BOP (Blow Out Preventer) and pressure test.

Final estimated field cost to do the surface hole (including construction, engineering and rig move cost) was $3,477,717.61.

Table of Contents

Bit Record

6 bits were used on surface hole. Drilling was hard and slow with the top rate of penetration being only 2.7m/hr. The following is a detailed bit record for the surface section.

Bit Run	Size (mm)	Make	Model	SN	IADC Codes	TFA (incl Noz) (mm²)	Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (hrs)	BHA ROP (m/hr)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)
1	444.5	HUGHES	PS33	6080265	___	722	17.5/17.5/17.5	20	202	151	77.75	1.9	15	5	150	80
2	444.5	SMITH	G15BODCPS	MZ0261	445	1,514	23.8/23.8/23.8/15.1	203	258	55	31.5	1.7	14	10	180	135
3	444.5	HUGHES	GTX-40	6075440	615	482	14.3/14.3/14.3	258	400	141	62.25	2.3	15	10	160	30
4	444.5	REED	5HOA598-7086	NC5609	515	792	17.5/17.5/17.5/9.5	400	504	103	48.5	2.1	18	12	45	1
5	444.5	SMITH	XR+	PK7165	115	986	19.1/19.1/19.1/12.7	504	560	56	26.75	2.1	18	13	26	1
6RR	444.5	REED	5HOA598-7086	NC5609	515	792	17.5/17.5/17.5/9.5	560	601.2	41.2	15	2.7	21	18	26	22

Sidetrack Hole

There were no sidetrack holes in this section.

Fishing operations

There was one fishing operation carried out at a depth of 258m when the shock sub came apart leaving a 24m fish in the hole. After waiting for approximately one day for fishing tools; a fishing bottom hole assembly was ran in the hole and the fish was easily recovered.

Well Kicks

There were no kicks of any type while drilling this section

Formation Leak-off Tests

No Leak off or pressure tests were done in this section

Casing

339.7mm casing was ran and cemented in place to a total measured depth of 601m. The last joint of casing was washed down and no hole fill (cavings) were evident. The flowing table lists the detail of the casing and equipment cement in place for the surface hole:

Casing Components								
Item Description	OD (mm)	Wt (kg/m)	Grade	Joints	Length (m)	Top (mKB)	Btm (mKB)	ID (mm)
Casing Joints	339.7	81.105	J-55	44	586.58	-0.2	586.38	320.4
Float Collar	339.7	81.105	J-55	1	0.51	586.38	586.89	320.4
Casing Joints	339.7	81.105	J-55	1	13.54	586.89	600.43	320.4
Shoe	339.7	81.105	J-55	1	0.57	600.43	601	320.4
Set Depth (mKB): 601.00								
Run Date: 2010/03/08 03:00								

Cement

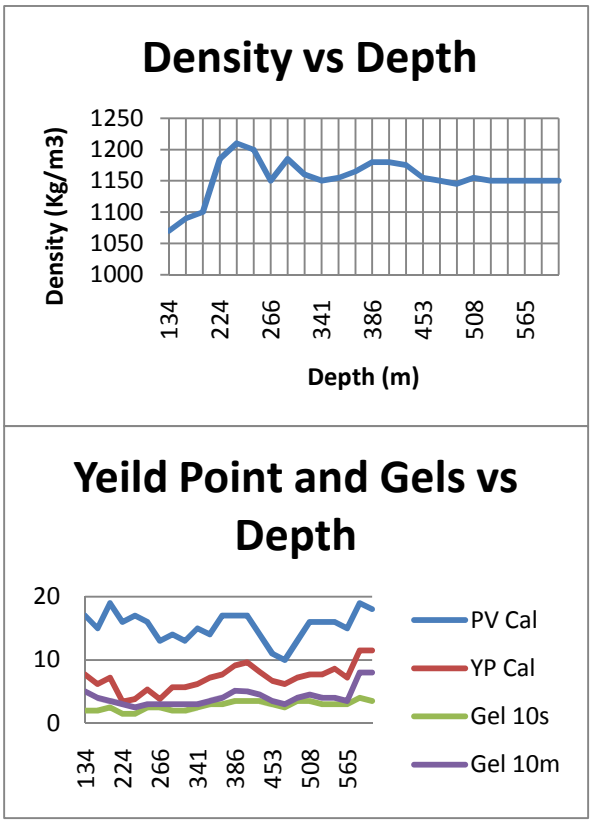
The surface casing was ran and cemented in place with no issues. Surface cement returns were seen at surface using calculated volumes. The following table summarizes the cement job on this well:

Cement Summary						
Vol (t)	**Type**	**Additive**	**Density (Kg/m^3)**	**yeild m^3/t)**	**Slurry(m^3)**	**Interval**
86.54	Normal Portland	N/A	1878	0.777	67.24	0 - 601m

Drilling Fluid

The drilling fluid used on this section was a typical gel/chemical type spud mud. A full service mud engineer was on location in order to keep this large hole clean and minimize any issues that could be caused by poor mud properties. The drilling fluid performed well and was the best choice for this type of well. The following table is a recap of the daily fluid properties:

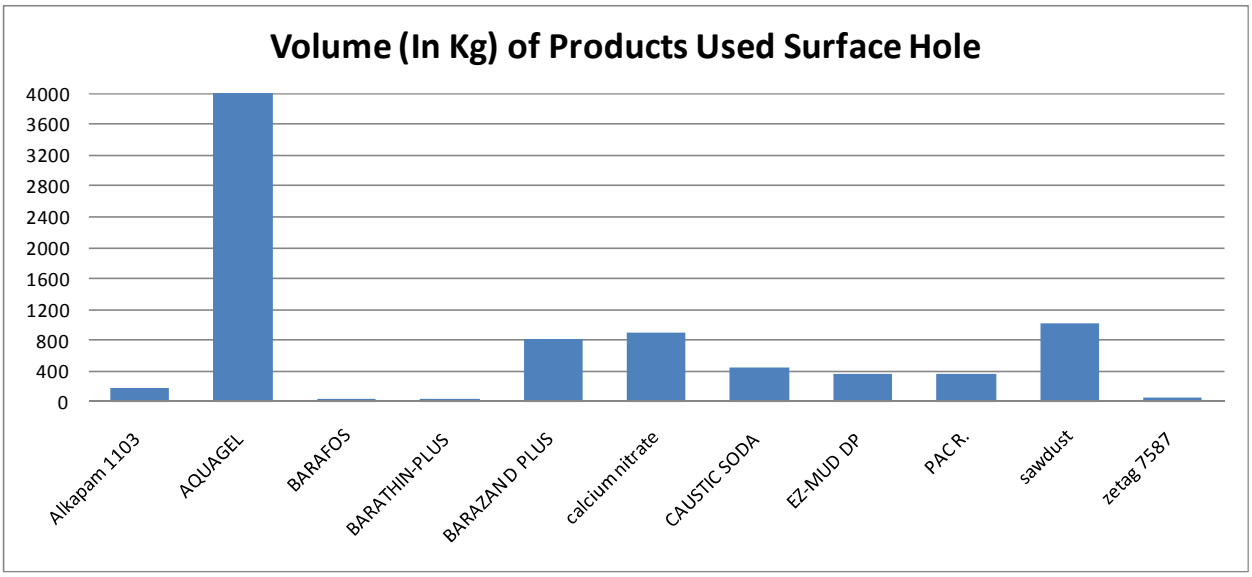
Date	Depth (mKP)	Mud Type	Density (kg/m3)	Visc (s/L)	PV Cal (cp)	YP Cal (Pa)	Gel (10s Pa)	Gel (10m Pa)	Filtrate (ml/30 min)	pH	Ca++ (mg/L)	Cl- (mg/L)	MBT (kg/m3)
02/18/2010	134	Spud Mud	1,070	55	17	7.7	2.0	5.0	8.2	8.50	80	250	40.0
02/18/2010	154	Spud Mud	1,090	48	15	6.2	2.0	4.0	8.0	8.00	60	300	40.0
02/19/2010	180	Spud Mud	1,110	52	19	7.2	2.5	3.5	7.6	8.50	60	350	50.0
02/20/2010	224	Spud Mud	1,185	45	16	3.4	1.5	3.0	8.0	8.50	80	600	40.0
02/20/2010	241	Spud Mud	1,210	47	17	3.8	1.5	2.5	7.2	9.00	60	600	40.0
02/21/2010	258	Spud Mud	1,200	51	16	5.3	2.5	3.0	6.8	8.00	60	600	40.0
02/23/2010	266	Spud Mud	1,150	46	13	3.8	2.5	3.0	6.4	8.00	60	600	40.0
02/24/2010	299	Spud Mud	1,185	48	14	5.7	2.0	3.0	7.2	9.00	60	600	40.0
02/25/2010	318	Spud Mud	1,160	47	13	5.7	2.0	3.0	6.6	8.50	60	600	40.0
02/25/2010	341	Spud Mud	1,150	47	15	6.2	2.5	3.0	6.6	8.00	60	650	50.0
02/25/2010	347	Spud Mud	1,155	47	14	7.2	3.0	3.5	6.2	8.50	60	600	55.0
02/26/2010	390	Spud Mud	1,165	48	17	7.7	3.0	4.0	7.2	8.00	60	650	75.0
02/26/2010	386	Spud Mud	1,180	52	17	9.1	3.5	5.1	6.4	8.50	60	650	75.0
02/27/2010	400	Spud Mud	1,180	54	17	9.6	3.5	5.0	7.2	8.00	60	650	75.0
02/28/2010	429	Spud Mud	1,175	46	14	8.1	3.5	4.5	6.0	9.00	60	750	70.0
02/28/2010	453	Spud Mud	1,155	47	11	6.7	3.0	3.5	6.4	10.00	80	750	70.0
03/01/2010	470	Spud Mud	1,150	44	10	6.2	2.5	3.0	6.6	8.50	40	650	70.0
03/02/2010	501	Spud Mud	1,145	46	13	7.2	3.5	4.0	7.5	7.50	40	600	70.0
03/02/2010	508	Spud Mud	1,155	53	16	7.7	3.5	4.5	6.8	9.50	40	600	70.0
03/03/2010	531	Spud Mud	1,150	53	16	7.7	3.0	4.0	6.5	9.00	40	650	80.0
03/03/2010	554	Spud Mud	1,150	57	16	8.6	3.0	4.0	6.2	8.75	40	850	85.0
03/04/2010	565	Spud Mud	1,150	52	15	7.2	3.0	3.5	7.0	9.00	50	800	90.0
03/04/2010	586	Spud Mud	1,150	65	19	11.5	4.0	8.0	7.0	8.50	50	900	95.0
03/05/2010	601	Spud Mud	1,150	68	18	11.5	3.5	8.0	6.5	8.50	40	900	90.0



Drilling Fluid Product Usage

Material	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	35	33250.00
		SubTotal	**$ 33,250.00**

Fluids/Products: Drilling Cost	weight (kg)	# bags	Kg total	cost
Alkapam 1103	25	7	175	1724.52
AQUAGEL	22.68	551	12496.68	6507.31
BARAFOS	22.68	2	45.36	194.20
BARATHIN-PLUS	11.34	4	45.36	329.56
BARAZAN D PLUS	11.34	72	816.48	13312.08
calcium nitrate	33	27	891	1437.48
CAUSTIC SODA	22.68	20	453.6	958.20
EZ-MUD DP	22.68	16	362.88	3708.48
PAC R.	22.68	16	362.88	2516.96
saw dust	11.34	90	1020.6	623.70
zetag 7587	25	2	50	1657.70
		SubTotal	**$**	**32970.19**
		Total	**$**	**66220.19**



Note: Volume (In kg) for Aquagel exceeds the graph parameters (18000+ Kg)

Safety

Safety is an important part off all drilling operations. Daily safety meetings are held on the rig that review typical operations and safety procedures performed on the rig. The following table is a summary of the safety meetings held on the rig routinely:

Date	Description	Type
13/02/2010 0:00	WORKING ON MONKEY BOARD	Safety Meeting
13/02/2010 12:00	RAISING DERRICK	Safety Meeting
14/02/2010 0:00	RIG SERVICE	Safety Meeting
14/02/2010 12:00	LOADER OPERATION	Safety Meeting
15/02/2010 0:00	INSTALLING FLOW LINE	Safety Meeting
15/02/2010 12:00	REVIEW SAFETY ALERTS	Safety Meeting
16/02/2010 0:00	WIRELINE SURVEY	Safety Meeting
16/02/2010 12:00	PICKING UP 8 IN. DRILL COLLARS FROM V-DOOR	Safety Meeting
17/02/2010 0:00	DRIVING HOME ON LONG CHANGE	Safety Meeting
17/02/2010 12:00	DRIVING TO AND FROM LOCATION	Safety Meeting
18/02/2010 0:00	LOCK-OUT PROCEDURES	Safety Meeting
18/02/2010 12:00	WIRELINE SURVEYS	Safety Meeting
19/02/2010 0:00	LOADER OPERATIONS	Safety Meeting
19/02/2010 12:00	MOUSEHOLE CONNECTION W/DC	Safety Meeting
20/02/2010 0:00	ROAD CONDITIONS	Safety Meeting
20/02/2010 12:00	CHANGING TONG DIES	Safety Meeting
21/02/2010 0:00	GREASING CROWN	Safety Meeting
21/02/2010 12:00	CREW HANDOVER W/NALCOR SAFETY REPRESENTATIVE	Safety Meeting
22/02/2010 0:00	MOOSE ON ROADWAYS	Safety Meeting
22/02/2010 12:00	WINTER OPERATIONS	Safety Meeting
23/02/2010 0:00	FISHING	Safety Meeting
23/02/2010 12:00	MAKING UP B.H.A	Safety Meeting
24/02/2010 0:00	FATIGUE WHILE DRIVING HOME ON LONG CHANGE	Safety Meeting
24/02/2010 12:00	WIRE ROPE SAFETY AND INSPECTION	Safety Meeting
25/02/2010 0:00	LOADER OPERATION	Safety Meeting
25/02/2010 12:00	LAYDOWN AND PICK UP BHA	Safety Meeting
26/02/2010 0:00	BOILER OPERATION	Safety Meeting
26/02/2010 12:00	TRIPPING	Safety Meeting
27/02/2010 0:00	ROTARY TABLE DANGER ZONE	Safety Meeting
27/02/2010 12:00	MAKE UP DIR. TOOLS	Safety Meeting
28/02/2010 0:00	DIRECTIONAL DRILLING	Safety Meeting
28/02/2010 12:00	TRAPPED TABLE TORQUE	Safety Meeting
01/03/2010 0:00	KICK WARNING SIGNS	Safety Meeting
01/03/2010 12:00	SPILLS	Safety Meeting
02/03/2010 0:00	RIG SERVICE	Safety Meeting
02/03/2010 12:00	HANDLE DIR. TOOLS	Safety Meeting
03/03/2010 0:00	SETTING AND PULLING SLIPS	Safety Meeting
03/03/2010 12:00	DRIVING TO AND FROM WORK	Safety Meeting
04/03/2010 0:00	TRIPPING	Safety Meeting
04/03/2010 12:00	RIG SERVICE	Safety Meeting
05/03/2010 0:00	LOCK-OUT PROCEDURES	Safety Meeting
05/03/2010 12:00	RUNNING CASING	Safety Meeting

Survey

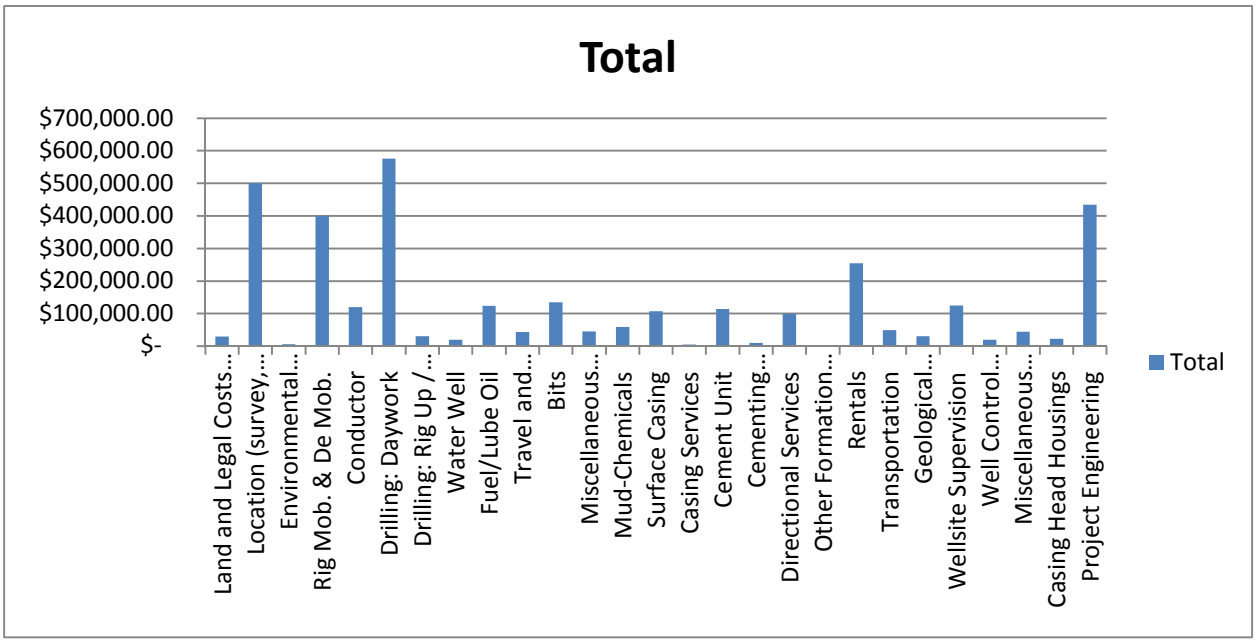
Deviation was a concern on the surface section. The geology of this area is highly deviated and it became an issue keeping the hole straight in this section. Shlumberger directional services were used to help bring back the well to near vertical when the hole started to deviate uncontrollably. The following table is a summary of the directional surveys measured on the surface hole:

Survey Data								
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)
23-Feb-10	249	3.1	0	248.88	6.73	6.73	0	0.37
24-Feb-10	276	3.81	0	275.83	8.36	8.36	0	0.79
24-Feb-10	305	4.55	0	304.75	10.48	10.48	0	0.77
25-Feb-10	331	5.69	0	330.65	12.8	12.8	0	1.32
26-Feb-10	358	6.77	0	357.49	15.73	15.73	0	1.2
26-Feb-10	375	7.47	0	374.36	17.83	17.83	0	1.24
27-Feb-10	382.69	7.93	329	381.98	18.79	18.79	-0.27	16.1
28-Feb-10	396.69	7.86	330.59	395.85	20.45	20.45	-1.24	0.49
28-Feb-10	396.69	7.86	330.59	395.85	20.45	20.45	-1.24	0.49
28-Feb-10	410.8	8.01	327.47	409.82	22.12	22.12	-2.24	0.97
28-Feb-10	410.8	8.01	327.47	409.82	22.12	22.12	-2.24	0.97
28-Feb-10	424	8.06	326.35	422.89	23.66	23.66	-3.25	0.37
28-Feb-10	424	8.06	326.35	422.89	23.66	23.66	-3.25	0.37
28-Feb-10	438.29	8.28	323.55	437.04	25.33	25.33	-4.42	0.95
01-Mar-10	451.53	8.47	321.1	450.14	26.85	26.85	-5.6	0.92
01-Mar-10	465.01	8.27	320.24	463.47	28.37	28.37	-6.84	0.53
02-Mar-10	478.73	8.09	319.89	477.05	29.87	29.87	-8.09	0.41
02-Mar-10	492.34	7.88	319.2	490.53	31.31	31.31	-9.32	0.51
03-Mar-10	505.96	7.51	319.49	504.03	32.69	32.69	-10.51	0.82
03-Mar-10	519.56	6.16	318.75	517.53	33.91	33.91	-11.57	2.98
03-Mar-10	533.5	5.77	318.68	531.4	35	35	-12.52	0.84
04-Mar-10	546.89	4.65	320.87	544.73	35.93	35.93	-13.31	2.55
04-Mar-10	560.43	4.24	319.19	558.23	36.73	36.73	-13.98	0.95
05-Mar-10	574.31	4.23	317.05	572.07	37.5	37.5	-14.67	0.34
05-Mar-10	583.19	4.26	314.5	580.93	37.97	37.97	-15.12	0.65

Cost Breakdown

Surface Costs were more than expected. Drilling was very slow averaging only 1.7 – 2.7m/hr and an unscheduled fishing trip added to the high cost. Surface costs include project engineering costs and all lease building, moving and legal costs as well. The following is a complete breakdown of the costs associated with this hole section:

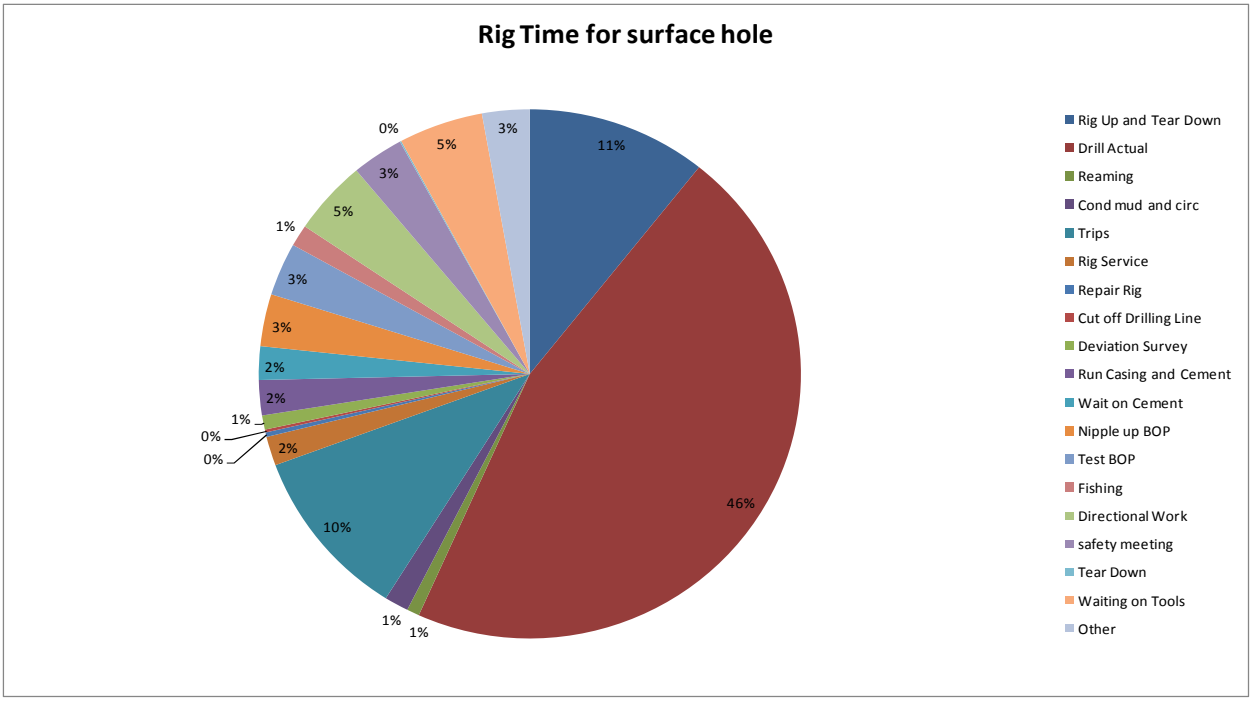
Cost Description	Total	Percent
Land and Legal Costs (including damage)	$ 30,000.00	1%
Location (survey, pad, roads, etc)	$ 500,535.00	15%
Environmental Expense	$ 6,000.00	0%
Rig Mob. & De Mob.	$ 400,000.00	12%
Conductor	$ 119,745.00	4%
Drilling: Daywork	$ 576,100.00	17%
Drilling: Rig Up / Down	$ 30,780.00	1%
Water Well	$ 20,000.00	1%
Fuel/Lube Oil	$ 124,342.00	4%
Travel and Subsistence	$ 43,200.00	1%
Bits	$ 135,000.00	4%
Miscellaneous Consumables	$ 45,000.00	1%
Mud-Chemicals	$ 59,451.87	2%
Surface Casing	$ 107,650.00	3%
Casing Services	$ 5,000.00	0%
Cement Unit	$ 114,122.00	3%
Cementing Equipment (float, DV, Centalizers, etc)	$ 10,000.00	0%
Directional Services	$ 99,712.00	3%
Other Formation Evaluation / Analysis	$ 2,000.00	0%
Rentals	$ 254,745.30	7%
Transportation	$ 49,000.00	1%
Geological Supervision	$ 31,000.00	1%
Wellsite Supervision	$ 125,300.00	4%
Well Control Insurance	$ 20,000.00	1%
Miscellaneous Drilling Services	$ 44,865.00	1%
Casing Head Housings	$ 23,000.00	1%
Project Engineering	$ 434,000.00	13%
Total	**$ 3,410,548.17**	**100%**


Total
$700,000.00
$600,000.00
$500,000.00
$400,000.00
$300,000.00
$200,000.00
$100,000.00
$-
Land and Legal Costs...
Location (survey,...
Environmental...
Rig Mob. & De Mob.
Conductor
Drilling: Daywork
Drilling: Rig Up /...
Water Well
Fuel/Lube Oil
Travel and...
Bits
Miscellaneous...
Mud-Chemicals
Surface Casing
Casing Services
Cement Unit
Cementing...
Directional Services
Other Formation...
Rentals
Transportation
Geological...
Wellsite Supervision
Well Control...
Miscellaneous...
Casing Head Housings
Project Engineering
Total

Time breakdown

The well was spudded at 22:30 on February 15/2010. Surface hole took approximately 21 days to drill and run casing. The following is a time breakdown from February 13th (rig up) to March 8th (when the casing was ran and cemented and the cased hole was ready to drill out).

Activity	Total	% total
Rig Up and Tear Down	61.5	11%
Drill Actual	263.25	46%
Reaming	4.25	1%
Cond mud and circ	8.25	1%
Trips	60	10%
Rig Service	10.25	2%
Repair Rig	1.5	0%
Cut off Drilling Line	1	0%
Deviation Survey	5	1%
Run Casing and Cement	12.25	2%
Wait on Cement	11.75	2%
Nipple up BOP	18.25	3%
Test BOP	18.5	3%
Fishing	7.5	1%
Directional Work	26	5%
safety meeting	17.75	3%
Tear Down	0.5	0%
Waiting on Tools	28.75	5%
Other	16.25	3%
Total	**572.5**	**100%**



Appendix N

Intermediate Hole Recap

NALCOR

INTERMEDIATE HOLE RECAP OF OPERATIONS

SEAMUS ET AL #1
MARCH - APRIL 2010

Executive Summary

Nalcor et al Seamus #1 intermediate section began operations on March 8th at approximately 21:45. The surface cement was encountered as expected at 579m and this was drilled out with a 311mm bit.

Drilling continued to a depth of 605m when a Formation Integrity test was performed. The hole was tested up to a maximum pressure of 20 kPa/m with no leak off. Routine drilling operations continued with some hole stability issues which included having to weight up to 1120 kg/m3 at 1011m and further density increases (up to 1200 kg/m3) were required for hole stability before reaching an intermediate casing depth of 2298m.

Drilling throughout this interval was slow. This was partially due to the geology (unexpected chert stringers and very hard carbonates throughout), increases in mud density to control the stability of the well, and the directional path (S well type configuration). Many different and varied bit parameters were attempted to help increase the penetration rate such as weight on bit adjustment, rotary speed changes, pump rate alterations and different types of bits and so on. In the end, the change of parameters had little impact on the penetration rate.

Torque and drag started to become an issue before the final intermediate depth was reached. In order to mitigate torque, different mud additives were used to help decrease the friction. Before the casing was ran, drill beads were added to the drilling fluid and toque was reduced substantially. These additions of the beads help the casing to run to bottom with no issues.

Stick slip parameters were also an issue in this section. Stick slip of the directional assembly was high (Over 100% at some points) according to the directional drilling field staff of Shlumberger. Different techniques of increasing/decreasing weight on bit reducing/increasing rotary speed were attempted with little to no effect on stick slip readings. This was an issue that reduced ROP overall in this section inevitably costing more drilling days and money.

The calliper log on this well showed large areas of washout. While drilling these washout areas were not apparent. While circulating prior to running casing two different pills were circulated through the system to try and substantiate the calliper log. The pills did not confirm the large washouts; it was deduced that the calliper was measuring the long axis of an oblong type washout and this was confirmed when the extra cement used to make up for the washout returned to surface.

This section of the well took about 52 days to drill, log, and case. The total field cost for this section was $3,853,781.62.

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Bit Record

14 bits were used on intermediate hole. Drilling was hard and slow with the bits ranging from 1.8 to 2.2 m/hr; one bit actually averaged 6.1 m/hr (a PDC) but had to be pulled due to hard chert in the formation. The following is a detailed bit record for the intermediate section.

BHA No.	Bit Run	Size (mm)	Make	Model	SN	IADC Codes	TFA (incl Noz) (mm²)	Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (hrs)	BHA ROP (m/hr)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)
8	7	311	SMITH	XR+	8362	117	722	15.9/15.9/15.9/12.7	601	699	98	43	2.3	18	10	25
9	8	311	HUGHES	GX-35DX	6072503	547	1,008	22.0/20.0/20.0	700	896	182.54	57.75	3.2	14	14	35
10	9	311	HUGHES	HCD506Z	7011078		333	10.3/10.3/10.3/10.3	899	1,036.00	268	44	6.1	9	4	120
11	10	311	HUGHES	GX-35DX	6074869	537	520	14.3/14.3/15.9	1,036.00	1,076.00	40	18.25	2.2	14	12	140
12	11	311	SMITH	MSi816WBPX	SCB792		240	7.9/7.9/9.5/9.5	1,076.00	1,283.00	207	84.25	2.5	10	9	120
13	RR12	311	HUGHES	GX-35DX	6074869	537	1,040	14.3/15.9/14.3/14.3	1,294.00	1,386.00	92	46.25	2	14	10	170
14	13	311	HUGHES	HCM608	7109973		284	9.5/9.5/9.5/9.5	1,386.00	1,433.00	47	26.25	1.8	12	10	40
15	14	311	REED	M4249ZPD2T	CW7863	537	596	15.9/15.9/15.9	1,433.00	1,552.00	119	42.5	2.8	20	10	40
16	15	311	HUGHES	S55RDX	6071993	637	596	15.9/15.9/15.9	1,552.00	1,701.00	146	62.75	2.3	20	19	60
17	16	311	HUGHES	GX-44DX	6072495	617	596	15.9/15.9/15.9	1,701.00	1,908.00	207	78.25	2.6	20	17	165
18	17	311	HUGHES	GX-44DX	6072050	617	448	14.3/14.3/12.7	1,908.00	2,044.00	112	61.75	1.8	24	15	165
19	18	311	HUGHES	GX-35DX	6074846	537	520	15.9/14.3/14.3	2,044.00	2,179.00	127	66.75	1.9	23	19	160
20	19	311	HUGHES	GX-30MDX	6074879	537	520	15.9/14.3/14.3	2,179.00	2,298.00	119	53.25	2.2	22	20	120
21	RR	311	HUGHES	GX-35DX	6074846	537										

Sidetrack Hole

There were no sidetrack holes in this section.

Fishing operations

There was no fishing operations carried out in this section.

Well Kicks

There were no kicks of any type while drilling this section

Formation Leak-off Tests

A formation integrity test was carried out after drilling out. Pressure was taken up to 20mpa and stopped prior to leak off. The following Data summarizes the FIT completed in this section:

Leak off Test Data		
Depth	605	m
Mud density	1050	kg/m^3
Surface pressure*	20	Mpa
Last Casing Depth	601	m
Mud Weight equivalent at last casing depth	1246.2	kg/m^3
*No Beakdown acheived		

Casing

244.5mm casing was ran and cemented in place to a total measured depth of 2292.5m. Drill beads were added to the mud system just prior to pulling out of the hole to help reduce the substantial torque and drag. The flowing table lists the detail of the casing and equipment cement in place for the surface hole:

Casing Components							
Item Description	**OD (mm)**	**ID (mm)**	**Wt (kg/m)**	**Grade**	**Top (mKB)**	**Btm (mKB)**	**Len (m)**
Casing Joints	244.5	222.4	64.735	L-80	-0.2	1,533.39	1,533.39
Marker Joint	244.5	222.4	64.735	L-80	1,533.39	1,539.92	6.53
Casing Joints	244.5	222.4	64.735	L-80	1,539.92	2,263.47	723.55
Float Collor	244.5	222.4	64.735	L-80	2,263.47	2,264.10	0.63
Casing Joints	244.5	222.4	64.735	L-80	2,264.10	2,277.98	13.88
Casing Joints	244.5	222.4	64.735	L-80	2,277.98	2,291.86	13.88
Float Shoe	244.5	222.4	64.735	L-80	2,291.86	2,292.50	0.64
Set Depth (mKB): 2,292.50							
Run Date 2010/04/23 21:45							

Cement

The intermediate casing was ran and cemented in place with no issues. Intermediate cement returns were seen at surface using calculated volumes. The following table summarizes the cement job on this well:

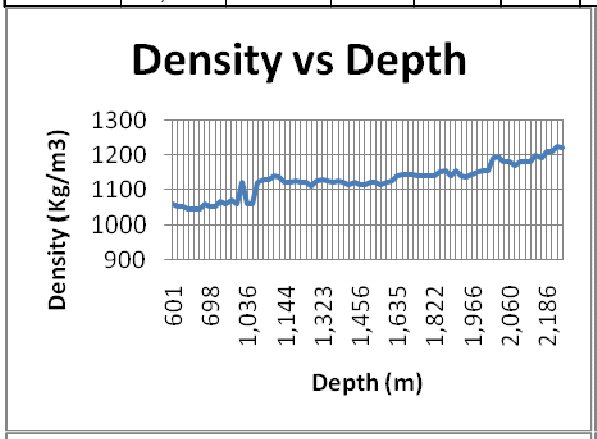
Cement Summary						
Vol (t)	**Type**	**Additive**	**Density (Kg/m^3)**	**yeild m^3/t)**	**Slurry(m^3)**	**Interval**
1.1	Fill lite 2-100	1.1% R-3 Cement retarder	1250	2.73	3	0
25.82	Fill lite 2-100	1.1% R-3 Cement retarder	1518	1.317	34	500 - 1100
100	Class G	0.4% Fl-5 Fluid loss control R-3 Cement Retarder	1901	0.757	75.7	1100 - 2290

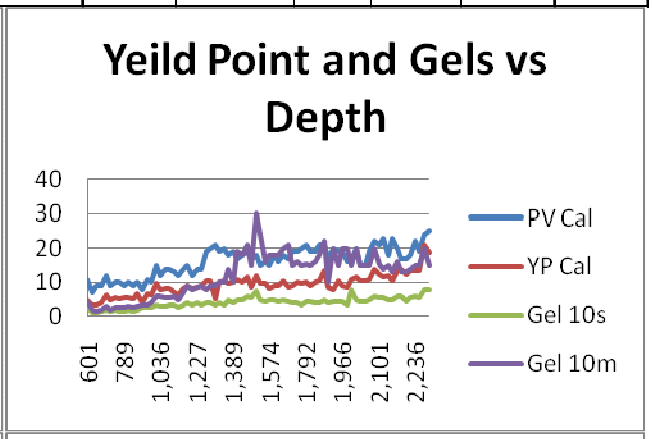
Drilling Fluid

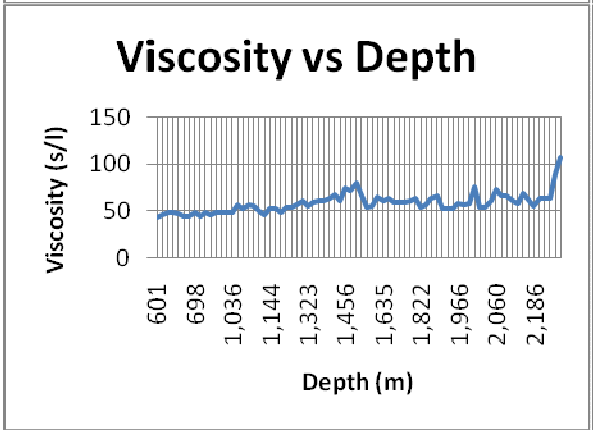
The drilling fluid used on this section was a shale inhibitive polymer fluid. A full service mud engineer was on location in order to keep this large hole clean and minimize any issues that could be caused by poor mud properties. The drilling fluid performed well and was the best choice for this type of well. The following table is a recap of the daily fluid properties:

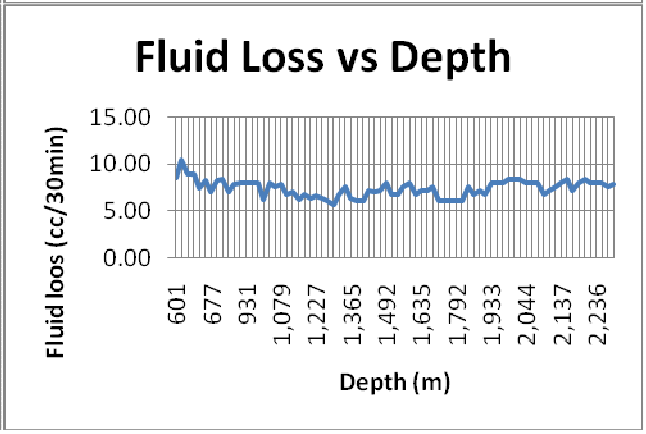
Date	Depth (mKP)	Density (kg/m3)	Visc (s/L)	PV Cal (cp)	YP Cal (Pa)	Gel (10s Pa)	Gel (10m Pa)	Filtrate (ml/30 min)	pH	Ca++ (mg/L)	Cl- (mg/L)	MBT (kg/m3)
03/08/2010	601	1045	43	11	4.80	2.50	4.50	8.50	8.75	80	450	45.0
03/09/2010	621	1040	45	7	3.40	1.00	2.00	10.50	9.00	200	500	40.0
03/09/2010	634	1060	48	9	3.40	1.00	1.50	9.00	8.50	220	500	45.0
03/09/2010	643	1050	48	9	4.30	1.50	2.00	9.00	8.75	150	600	40.0
03/09/2010	653	1050	47	12	6.20	2.00	3.00	7.50	9.00	100	500	45.0
03/10/2010	665	1045	44	9	4.80	1.50	2.00	8.30	8.50	100	600	35.0
03/10/2010	677	1045	44	10	5.50	1.70	2.50	7.00	8.70	80	600	35.0
03/11/2010	698	1045	48	10	5.30	1.50	2.50	8.20	9.00	100	500	40.0
03/12/2010	789	1060	44	9	5.70	1.50	2.50	8.40	9.25	60	500	45.0
03/13/2010	858	1050	48	10	5.70	2.00	3.00	7.00	8.75	70	600	40.0
03/14/2010	896	1050	46	9	5.30	1.50	2.50	7.80	9.00	100	500	35.0
03/15/2010	996	1065	49	10	6.70	2.00	3.00	8.00	8.75	100	400	45.0
03/15/2010	931	1060	48	8	4.30	2.50	3.50	8.00	8.75	100	450	40.0
03/15/2010	1,025	1070	48	11	6.70	2.50	3.50	8.00	8.75	100	400	50.0
03/16/2010	1,036	1060	49	10	6.20	2.50	4.00	8.00	9.50	60	400	45.0
03/17/2010	1,078	1120	57	15	9.60	3.50	6.00	6.20	9.00	60	450	45.0
03/17/2010	1,036	1060	52	12	7.70	3.00	6.00	8.00	9.50	80	400	45.0
03/17/2010	1,054	1060	56	14	8.10	3.00	5.50	7.60	9.25	80	450	45.0
03/18/2010	1,079	1120	55	14	8.10	3.50	5.50	7.80	8.70	80	450	45.0
03/18/2010	1,096	1130	50	13	7.20	3.50	6.00	6.80	8.75	80	450	45.0
03/19/2010	1,123	1130	45	12	6.20	2.50	5.00	7.00	8.75	60	500	40.0
03/19/2010	1,144	1140	52	14	8.10	3.50	7.00	6.20	8.75	100	500	40.0
03/20/2010	1,172	1135	53	15	8.90	4.00	9.00	6.80	8.50	80	500	40.0
03/20/2010	1,198	1120	48	12	8.10	3.50	8.00	6.40	8.50	80	500	40.0
03/21/2010	1,227	1120	54	14	8.60	4.00	8.50	6.60	8.50	100	550	40.0
03/21/2010	1,254	1125	54	14	8.90	3.50	9.00	6.40	8.70	100	500	40.0
03/22/2010	1,286	1120	57	19	10.50	4.00	8.00	6.00	8.50	100	500	40.0
03/23/2010	1,299	1120	60	20	10.50	4.00	9.00	5.60	8.50	100	600	40.0
03/23/2010	1,323	1110	55	21	5.30	3.50	9.00	6.80	8.20	100	500	40.0
03/24/2010	1,350	1125	59	19	10.10	4.00	10.00	7.60	8.50	120	600	40.0
03/24/2010	1,365	1130	60	20	10.50	3.50	10.00	6.40	8.50	120	500	40.0
03/25/2010	1,386	1125	60	18	9.60	5.00	14.00	6.00	8.50	160	500	40.0
03/26/2010	1,389	1120	64	19	10.10	4.00	10.00	6.00	8.50	160	500	40.0
03/26/2010	1,421	1125	68	17	11.00	5.00	19.00	7.20	8.50	160	600	40.0
03/27/2010	1,429	1120	60	18	10.10	5.00	18.00	7.00	8.20	160	450	45.0
03/28/2010	1,456	1115	74	19	11.50	6.00	21.00	7.20	8.00	160	500	40.0
03/28/2010	1,492	1120	71	17	8.60	5.50	15.00	8.00	9.00	160	450	40.0
03/29/2010	1,533	1115	80	18	12.00	7.50	30.00	6.80	8.50	160	400	40.0
03/29/2010	1,551	1115	66	15	9.60	5.00	24.00	6.80	8.50	160	400	40.0
03/30/2010	1,560	1120	54	16	9.90	4.50	16.00	7.60	8.00	160	400	45.0
03/30/2010	1,574	1120	55	15	8.10	5.00	18.00	8.00	8.00	160	450	45.0
03/31/2010	1,603	1115	65	18	9.10	5.00	18.00	6.80	8.00	160	400	45.0
03/31/2010	1,635	1120	60	16	9.10	4.50	18.00	7.20	8.00	160	450	45.0
04/01/2010	1,675	1125	63	18	10.50	5.00	20.00	7.20	8.50	120	450	40.0
04/01/2010	1,700	1140	59	17	8.60	4.50	21.00	7.60	9.00	120	450	40.0
04/02/2010	1,714	1145	59	19	9.10	4.00	15.00	6.00	9.00	100	500	40.0
04/02/2010	1,732	1145	59	19	10.10	4.00	16.00	6.00	9.00	60	500	40.0
04/03/2010	1,767	1145	60	20	9.60	3.50	15.00	6.00	9.00	60	450	50.0
04/03/2010	1,792	1140	64	21	10.10	4.50	15.50	6.00	8.50	120	450	50.0
04/04/2010	1,822	1140	54	19	9.10	4.50	15.00	6.00	9.00	120	500	50.0
04/04/2010	1,861	1140	56	19	10.10	4.00	16.00	7.60	8.50	120	500	50.0
04/05/2010	1,884	1140	64	21	10.50	4.00	18.00	6.80	9.00	120	500	40.0

Date	Depth (mKP)	Density (kg/m3)	Visc (s/L)	PV Cal (cp)	YP Cal (Pa)	Gel (10s Pa)	Gel (10m Pa)	Filtrate (ml/30 min)	pH	Ca++ (mg/L)	Cl- (mg/L)	MBT (kg/m3)
04/06/2010	1,912	1155	52	17	8.60	4.00	10.00	6.80	8.50	60	450	45.0
04/07/2010	1,933	1140	52	20	7.70	4.50	20.00	8.00	9.50	60	450	40.0
04/07/2010	1,933	1155	52	19	10.50	4.50	15.00	8.00	8.50	60	450	40.0
04/08/2010	1,966	1140	58	19	9.10	4.50	20.00	8.00	9.00	60	450	40.0
04/08/2010	1,987	1135	56	16	8.60	3.50	20.00	8.40	9.00	60	450	40.0
04/09/2010	2,009	1145	58	17	11.00	8.00	15.00	8.40	9.00	60	500	50.0
04/09/2010	2,029	1150	76	20	11.50	5.00	20.00	8.40	9.50	60	450	40.0
04/10/2010	2,044	1155	54	15	10.40	4.40	15.10	8.00	8.00	160	500	40.1
04/11/2010	2,044	1155	54	15	10.50	4.50	15.00	8.00	8.00	160	500	40.0
04/11/2010	2,056	1190	61	19	11.00	5.00	15.00	8.00	9.00	120	500	55.0
04/12/2010	2,060	1195	73	22	13.90	6.00	20.00	6.80	9.50	100	500	55.0
04/13/2010	2,101	1180	66	21	12.40	5.50	15.50	7.20	9.00	160	500	55.0
04/13/2010	2,113	1180	66	23	11.50	5.50	14.00	7.60	9.00	160	500	55.0
04/14/2010	2,137	1170	60	18	12.00	5.00	15.00	8.00	9.00	120	550	50.0
04/14/2010	2,158	1180	58	23	10.50	5.00	13.00	8.40	9.00	160	500	50.0
04/15/2010	2,178	1180	69	20	13.40	6.00	16.00	7.20	9.00	120	550	50.0
04/16/2010	2,179	1180	62	17	13.90	6.00	13.00	8.00	8.50	80	550	50.0
04/17/2010	2,186	1200	55	17	12.40	4.50	13.00	8.40	9.00	80	550	55.0
04/17/2010	2,213	1190	63	18	13.40	5.50	14.00	8.00	9.00	120	550	55.0
04/18/2010	2,236	1210	63	22	13.40	6.00	15.00	8.00	9.50	120	550	55.0
04/18/2010	2,255	1210	63	19	13.40	5.50	15.00	8.00	9.00	120	550	55.0
04/19/2010	2,297	1225	90	24	21.10	8.00	20.00	7.60	9.00	120	550	50.0
04/20/2010	2,298	1220	107	25	18.70	8.00	15.00	7.80	9.50	120	550	55.0





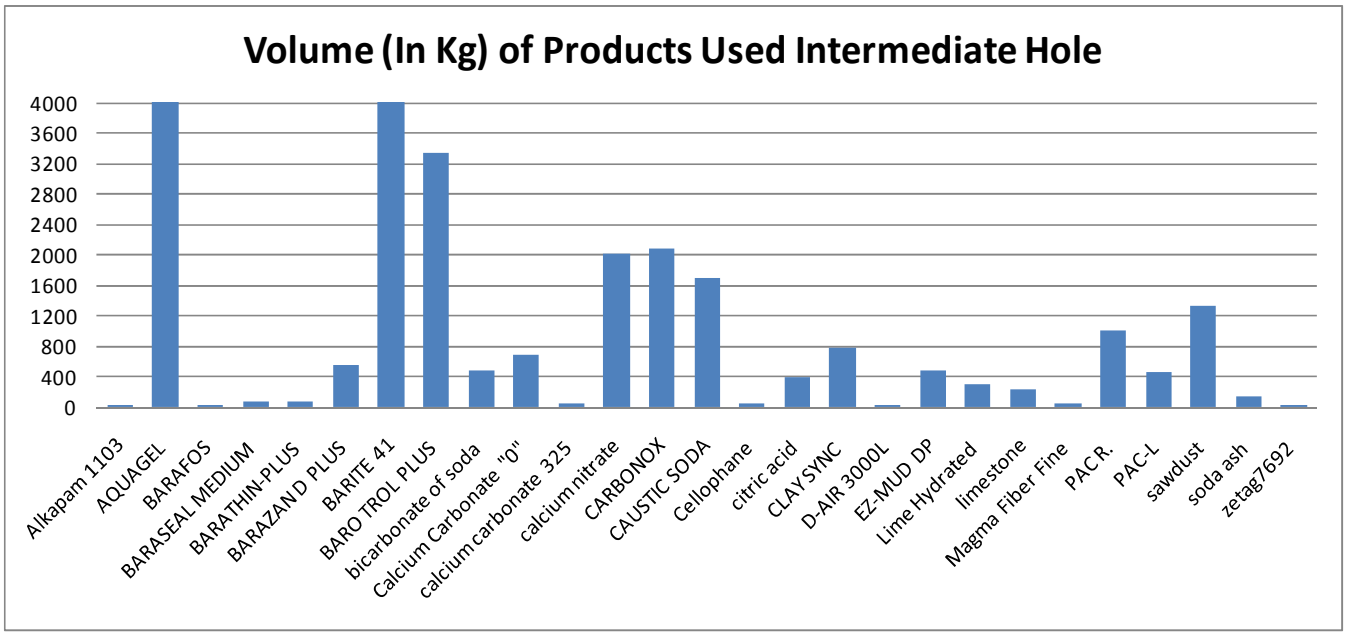




Drilling Fluid Product Usage

Material			Unit Size	Quantity		Total Cost
Engineering/Services						
Drilling Fluids Engineer			day(s)	46.00		43700.00
Mud balance			day(s)	39.00		975.00
				SubTotal	**$**	**44,675.00**

Fluids/Products: Drilling Cost		Intermediate	weight (kg)	# bags	Kg total	cost
Alkapam 1103			25	1	25	246.36
AQUAGEL			22.68	810	18370.8	9566.10
BARAFOS			22.68	1	22.68	97.10
BARASEAL MEDIUM			15.9	5	79.5	190.35
BARATHIN-PLUS			11.34	7	79.38	576.73
BARAZAN D PLUS			11.34	49	555.66	9059.61
BARITE 41			40	2362	94480	63962.96
BARO TROL PLUS			22.68	147	3333.96	19280.52
bicarbonate of soda			22.68	21	476.28	707.91
Calcium Carbonate "0"			25	28	700	335.16
calcium carbonate 325			25	2	50	23.94
calcium nitrate			33	61	2013	3247.64
CARBONOX			25	83	2075	1549.61
CAUSTIC SODA			22.68	75	1701	3593.25
Cellophane			11.34	5	56.7	270.45
citric acid			25	16	400	2538.88
CLAY SYNC			25	31	775	11977.16
D-AIR 3000L			19	1	19	827.94
EZ-MUD DP			22.68	21	476.28	4867.38
Lime Hydrated			20	15	300	181.76
limestone			22.68	10	226.8	300.00
Magma Fiber Fine			11.34	5	56.7	738.85
PAC R.			22.68	45	1020.6	7078.95
PAC-L			22.68	20	453.6	3146.20
saw dust			11.34	117	1326.78	810.81
soda ash			25	6	150	152.88
zetag7692			25	1	25	395.59
				SubTotal	**$**	**145,724.09**
				Interval Total Cost	**$**	**196,698.83**



Note: Volume (In kg) for barite and Aquagel exceeds the graph parameters

Safety

Safety is an important part off all drilling operations. Daily safety meetings are held on the rig that review typical operations and safety procedures performed on the rig. The following table is a summary of the safety meetings held on the rig routinely:

Date	Description	Type
06/03/2010 0:00	CEMENTING	Safety Meeting
06/03/2010 12:00	CLEANING MUD TANKS	Safety Meeting
07/03/2010 0:00	NIPPLE UP	Safety Meeting
07/03/2010 12:00	PRESSURE TEST BOP	Safety Meeting
08/03/2010 0:00	SLIP AND CUT DRILLING LINE	Safety Meeting
08/03/2010 12:00	DIRECTIONAL WORK	Safety Meeting
09/03/2010 0:00	KICK WARNING SIGNS	Safety Meeting
09/03/2010 12:00	BOP DRILL	Safety Meeting
10/03/2010 0:00	TRIPPING	Safety Meeting
10/03/2010 12:00	BOP DRILL	Safety Meeting
11/03/2010 0:00	MIXING CHEMICALS	Safety Meeting
11/03/2010 12:00	TUGGER USE	Safety Meeting
12/03/2010 0:00	CONNECTIONS	Safety Meeting
12/03/2010 12:00	MIXING CHEMICALS	Safety Meeting
13/03/2010 0:00	TABLE TORQUE	Safety Meeting
13/03/2010 12:00	MOUSEHOLE CONNECTIONS	Safety Meeting
14/03/2010 0:00	DRIVING TO AND FROM WORK	Safety Meeting
14/03/2010 12:00	HOUSEKEEPING	Safety Meeting
15/03/2010 0:00	TRIPPING IN HOLE	Safety Meeting
15/03/2010 12:00	MIXING CAUSTIC	Safety Meeting
16/03/2010 0:00	HIGH SPEED ROTARY	Safety Meeting
16/03/2010 12:00	PULLING TIGHT HOLEf	Safety Meeting
17/03/2010 0:00	DRIVING HOME ON LONG CHANGE	Safety Meeting
17/03/2010 12:00	BOP DRILL	Safety Meeting
18/03/2010 0:00	DIR. WORK	Safety Meeting
18/03/2010 12:00	SLIP AND CUT DRILL LINE	Safety Meeting
19/03/2010 0:00	LOADER OPERATIONS	Safety Meeting
19/03/2010 12:00	DRIFTING CASING	Safety Meeting
20/03/2010 0:00	KICK WARNING SIGNS	Safety Meeting
20/03/2010 12:00	SETTING & PULLING SLIPS	Safety Meeting
21/03/2010 0:00	SHUT-IN PROCEDURES	Safety Meeting
21/03/2010 12:00	MIXING CHEMICALS	Safety Meeting
22/03/2010 0:00	SPILLS	Safety Meeting
22/03/2010 12:00		Safety Meeting
23/03/2010 0:00	TRIPPING	Safety Meeting
23/03/2010 12:00	HOUSEKEEPING	Safety Meeting
24/03/2010 0:00	INSTALL CAMERA @ MONKEY BOARD	Safety Meeting
24/03/2010 12:00	MOUSEHOLE CONNECTIONS	Safety Meeting
25/03/2010 0:00	WORKING IN EXTREME WINDS	Safety Meeting
25/03/2010 12:00	TRIPPING	Safety Meeting
26/03/2010 0:00	PRESSURE TESTING	Safety Meeting
26/03/2010 12:00	TRAPPED TORQUE	Safety Meeting

Date	Description	Type
27/03/2010 0:00	TONG OPERATIONS	Safety Meeting
27/03/2010 12:00	ICE PLUGS	Safety Meeting
28/03/2010 0:00	PIPE SPINNER USE	Safety Meeting
28/03/2010 12:00	CATWALK OPERATIONS	Safety Meeting
29/03/2010 0:00	SAFTEY HARNESS AND LANYARDS	Safety Meeting
29/03/2010 12:00	CHANGING OUT TONG DIES	Safety Meeting
30/03/2010 0:00	GENERAL LOCK OUT PROCEDURES	Safety Meeting
30/03/2010 12:00	SLIP AND CUT	Safety Meeting
31/03/2010 0:00	MOVING MUD PRODUCTS	Safety Meeting
31/03/2010 12:00	B.O.P DRILL	Safety Meeting
01/04/2010 0:00	TRAPPED TORQUE	Safety Meeting
01/04/2010 12:00	MIXING CHEMICALS	Safety Meeting
02/04/2010 0:00	DIRECTIONAL ASSEMBLY	Safety Meeting
02/04/2010 12:00	TRIPPING IN HOLE	Safety Meeting
03/04/2010 0:00	POWER TOOL OPERATIONS	Safety Meeting
03/04/2010 12:00	RIG SERVICE	Safety Meeting
04/04/2010 0:00	GENERAL MAINTENANCE	Safety Meeting
04/04/2010 12:00	BOP DRILL	Safety Meeting
05/04/2010 0:00	RIG SERVICE	Safety Meeting
05/04/2010 12:00	CONNECTIONS	Safety Meeting
06/04/2010 0:00	LAY DOWN 6.5\ DRILL COLLARS	Safety Meeting
06/04/2010 12:00	PICKING UP DIRECTIONAL TOOLS	Safety Meeting
07/04/2010 0:00	DRIVING HOME ON LONG CHANGE	Safety Meeting
07/04/2010 12:00	CHANGING MWD SENSOR ON STANDPIPE	Safety Meeting
08/04/2010 0:00	CHANGING OUT HEAD ON PUMP	Safety Meeting
08/04/2010 12:00	BOP DRILL	Safety Meeting
09/04/2010 0:00	HOUSE KEEPING	Safety Meeting
09/04/2010 12:00	HOUSEKEEPING JTA 2-A	Safety Meeting
10/04/2010 0:00	RELEASING TABLE TORQUE ON CONNECTIONS	Safety Meeting
10/04/2010 12:00	HANDLING TONGS FOR 9in. COLLARS	Safety Meeting
11/04/2010 0:00	REAM IN HOLE	Safety Meeting
11/04/2010 12:00	MIXING CHEMICALS	Safety Meeting
12/04/2010 0:00	LAYING OUT SINGLES	Safety Meeting
12/04/2010 12:00	RIG SERVICE	Safety Meeting
13/04/2010 0:00	HIGH SPEED ROTARY	Safety Meeting
13/04/2010 12:00	RELEASING TABLE TORQUE	Safety Meeting
14/04/2010 0:00	DRIVING HOME ON LONGCHANGE	Safety Meeting
14/04/2010 12:00	BOP DRILL	Safety Meeting
15/04/2010 0:00	MOVING MUD PRODUCT WITH LOADER	Safety Meeting
15/04/2010 12:00	HOUSEKEEPING	Safety Meeting
16/04/2010 0:00	PRESSURE TESTING	Safety Meeting
16/04/2010 12:00	SLIPCUT DRILL LINE	Safety Meeting
17/04/2010 0:00	HOUSEKEEPING	Safety Meeting
17/04/2010 12:00	RIGTONG OPERATION	Safety Meeting
18/04/2010 0:00	BOP DRILL	Safety Meeting
18/04/2010 12:00	SETTING AND PULLING SLIPS	Safety Meeting
19/04/2010 0:00	MOVING MUD NPRODUCT WITH LOADER	Safety Meeting
19/04/2010 12:00	CHANGING OUT TONG DIES	Safety Meeting
20/04/2010 0:00	LAYING OUT 9in. DRILL COLLARS	Safety Meeting
20/04/2010 12:00	TRIPPING	Safety Meeting
21/04/2010 0:00	RIGGING UP LOGGERS	Safety Meeting
21/04/2010 12:00	RIGGING UP LOGGERS	Safety Meeting
22/04/2010 0:00	BOP DRILL	Safety Meeting

Survey

This part of the well was drilled directionally in an S-shaped pattern. Shlumberger directional services and there rotary steerable equipment were used through most of the hole. The following table is a summary of the directional surveys measured on the Intermediate hole:

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)
09/03/2010 12:00	615.77	2.93	332.12	613.44	39.55	39.55	-16.38	1.58
09/03/2010 12:00	629.45	2.12	9.29	627.11	40.11	40.11	-16.5	3.91
09/03/2010 12:00	643.1	2.52	48.65	640.75	40.56	40.56	-16.23	3.53
10/03/2010 12:00	657.08	3.26	67.5	654.71	40.91	40.91	-15.64	2.56
11/03/2010 0:00	670.69	3.94	71.68	668.3	41.21	41.21	-14.83	1.61
11/03/2010 12:00	689.22	4.82	71.74	686.77	41.65	41.65	-13.49	1.42
11/03/2010 12:00	698.14	5.18	74.22	695.66	41.88	41.88	-12.75	1.41
11/03/2010 12:00	711.28	4.79	79.71	708.75	42.14	42.14	-11.64	1.41
12/03/2010 0:00	725.22	4.18	91.02	722.65	42.23	42.23	-10.56	2.31
12/03/2010 0:00	738.52	4.18	108.15	735.91	42.07	42.07	-9.61	2.81
12/03/2010 12:00	752.77	4.69	120.16	750.12	41.62	41.62	-8.61	2.22
12/03/2010 12:00	766.77	5.13	119.06	764.07	41.03	41.03	-7.57	0.96
12/03/2010 12:00	780.21	6.09	118.15	777.44	40.4	40.4	-6.42	2.15
13/03/2010 0:00	794.02	6.59	109.14	791.17	39.79	39.79	-5.02	2.42
13/03/2010 0:00	807.99	7.48	103.41	805.03	39.32	39.32	-3.38	2.43
13/03/2010 0:00	821.19	8.53	101.96	818.11	38.92	38.92	-1.59	2.43
13/03/2010 12:00	834.94	8.61	99.89	831.7	38.53	38.53	0.42	0.7
13/03/2010 12:00	848.4	8.67	100.94	845.01	38.16	38.16	2.41	0.38
14/03/2010 0:00	862.22	8.27	97.25	858.68	37.84	37.84	4.42	1.46
15/03/2010 0:00	889.67	8.45	92.89	885.84	37.49	37.49	8.39	0.72
15/03/2010 0:00	903.66	8.48	95.26	899.67	37.34	37.34	10.45	0.75
15/03/2010 0:00	917.42	8.67	95.71	913.28	37.15	37.15	12.49	0.44
15/03/2010 0:00	930.65	8.65	98.91	926.36	36.89	36.89	14.47	1.09
15/03/2010 0:00	944.65	8.71	98.2	940.2	36.58	36.58	16.55	0.26
15/03/2010 0:00	958.26	8.62	98.43	953.65	36.28	36.28	18.58	0.21
15/03/2010 12:00	972.06	8.16	100.26	967.31	35.96	35.96	20.57	1.16
15/03/2010 12:00	985.55	7.82	101.39	980.67	35.61	35.61	22.41	0.83
15/03/2010 12:00	999.8	7.61	99.35	994.79	35.26	35.26	24.29	0.73
15/03/2010 12:00	1,013.24	7.4	99.99	1,008.11	34.97	34.97	26.02	0.5
16/03/2010 0:00	1,025.18	7.55	104.01	1,019.95	34.64	34.64	27.54	1.37
17/03/2010 12:00	1,052.56	8.31	102.66	1,047.07	33.77	33.77	31.22	0.86
18/03/2010 12:00	1,079.38	8.86	103.59	1,073.59	32.86	32.86	35.12	0.63
18/03/2010 12:00	1,093.18	9.13	104.55	1,087.22	32.34	32.34	37.21	0.67
19/03/2010 0:00	1,106.82	9.17	101.75	1,100.69	31.85	31.85	39.32	0.98
19/03/2010 12:00	1,120.21	9.07	99.71	1,113.91	31.45	31.45	41.41	0.76
19/03/2010 12:00	1,133.80	9.05	99.8	1,127.33	31.09	31.09	43.51	0.05

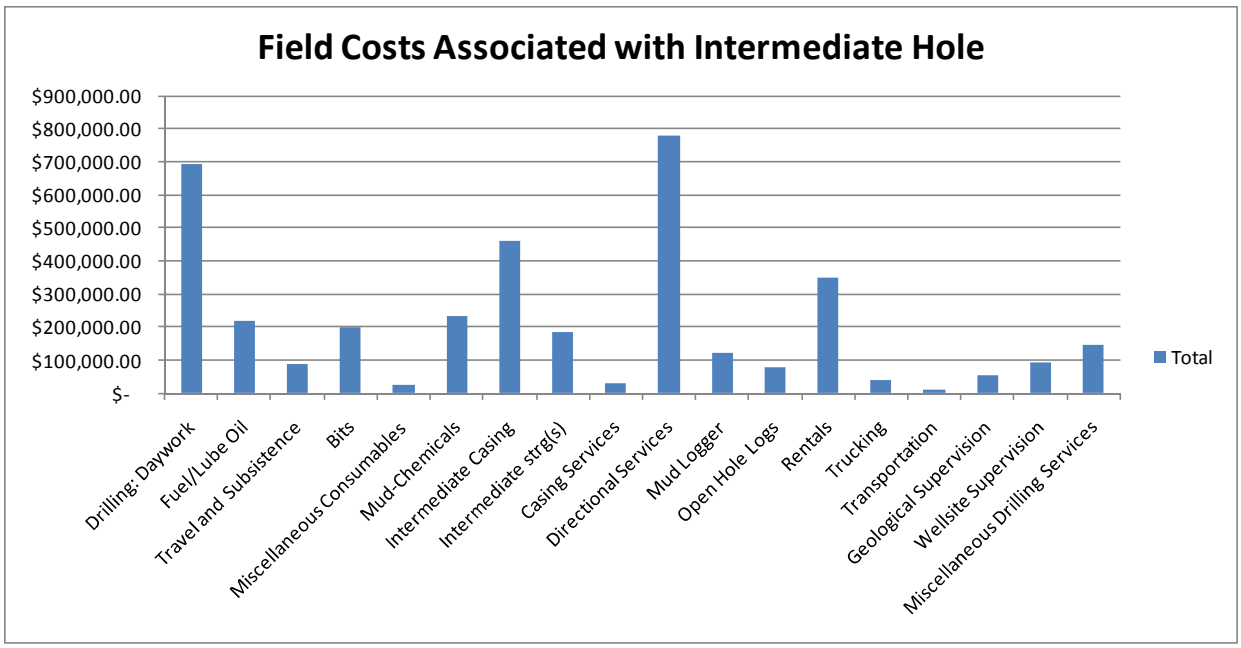
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)
20/03/2010 0:00	1,147.67	8.62	99.74	1,141.03	30.73	30.73	45.61	0.93
20/03/2010 0:00	1,160.70	8.33	101.62	1,153.92	30.37	30.37	47.5	0.92
20/03/2010 12:00	1,175.20	8.81	105.47	1,168.26	29.86	29.86	49.6	1.55
20/03/2010 12:00	1,188.39	9.68	99.51	1,181.28	29.41	29.41	51.67	2.94
21/03/2010 0:00	1,202.49	10.81	97.77	1,195.15	29.04	29.04	54.15	2.49
21/03/2010 12:00	1,229.49	12.68	92.84	1,221.59	28.55	28.55	59.62	2.36
21/03/2010 12:00	1,243.34	13.58	91	1,235.07	28.44	28.44	62.76	2.15
22/03/2010 0:00	1,259.04	14.53	89.81	1,250.30	28.42	28.42	66.57	1.9
23/03/2010 12:00	1,305.00	16.73	95.1	1,294.56	27.85	27.85	78.93	1.71
23/03/2010 12:00	1,312.15	16.91	96.8	1,301.41	27.63	27.63	80.99	2.2
24/03/2010 0:00	1,325.67	17.52	98.69	1,314.32	27.09	27.09	84.95	1.84
24/03/2010 12:00	1,339.76	18.06	101.2	1,327.74	26.35	26.35	89.19	2
24/03/2010 12:00	1,353.44	18.58	103.71	1,340.72	25.42	25.42	93.39	2.07
25/03/2010 0:00	1,368.15	19.36	104	1,354.64	24.27	24.27	98.03	1.6
26/03/2010 0:00	1,375.02	19.16	102.95	1,361.12	23.75	23.75	100.23	1.75
26/03/2010 12:00	1,389.48	20.19	102.53	1,374.74	22.67	22.67	104.98	2.16
26/03/2010 12:00	1,401.73	21.14	101.42	1,386.20	21.78	21.78	109.21	2.52
27/03/2010 12:00	1,416.00	22.16	101.13	1,399.46	20.75	20.75	114.37	2.16
28/03/2010 0:00	1,424.94	22.79	101.48	1,407.72	20.08	20.08	117.73	2.16
28/03/2010 0:00	1,438.47	23.6	101.26	1,420.16	19.03	19.03	122.95	1.81
28/03/2010 12:00	1,452.15	24.49	101.08	1,432.65	17.95	17.95	128.42	1.96
28/03/2010 12:00	1,465.88	25.42	101.44	1,445.10	16.82	16.82	134.1	2.06
28/03/2010 12:00	1,479.79	25.46	101.7	1,457.66	15.62	15.62	139.95	0.26
29/03/2010 0:00	1,493.31	25.34	102.42	1,469.87	14.41	14.41	145.62	0.74
29/03/2010 0:00	1,507.03	25.7	102.15	1,482.26	13.15	13.15	151.4	0.83
29/03/2010 0:00	1,520.75	26.33	100.58	1,494.59	11.96	11.96	157.3	2.04
29/03/2010 12:00	1,534.57	26.67	102.25	1,506.95	10.74	10.74	163.34	1.78
30/03/2010 12:00	1,548.39	26.56	101.99	1,519.31	9.44	9.44	169.4	0.35
30/03/2010 12:00	1,561.88	25.59	102.8	1,531.43	8.17	8.17	175.19	2.3
31/03/2010 0:00	1,575.03	25.74	103.32	1,543.28	6.88	6.88	180.74	0.62
31/03/2010 0:00	1,588.84	25.78	103.65	1,555.72	5.49	5.49	186.57	0.32
31/03/2010 12:00	1,602.63	25.57	102.76	1,568.15	4.12	4.12	192.39	0.96
31/03/2010 12:00	1,616.40	25.89	102.71	1,580.55	2.8	2.8	198.22	0.7
01/04/2010 0:00	1,630.03	26.19	101.37	1,592.80	1.55	1.55	204.07	1.45
01/04/2010 0:00	1,658.14	25.49	100.33	1,618.10	-0.75	-0.75	216.1	0.89
01/04/2010 12:00	1,671.30	25.51	100.7	1,629.97	-1.79	-1.79	221.67	0.37
02/04/2010 0:00	1,685.60	25.53	100.32	1,642.88	-2.91	-2.91	227.73	0.35
02/04/2010 12:00	1,714.97	25.77	99.55	1,669.35	-5.1	-5.1	240.25	0.42
03/04/2010 0:00	1,728.76	26.23	100.08	1,681.75	-6.13	-6.13	246.21	1.12
03/04/2010 0:00	1,742.77	26.47	99.13	1,694.30	-7.17	-7.17	252.34	1.04
03/04/2010 0:00	1,755.75	26.62	99.24	1,705.91	-8.1	-8.1	258.07	0.36
03/04/2010 12:00	1,769.54	26.97	99.54	1,718.22	-9.11	-9.11	264.2	0.82
03/04/2010 12:00	1,784.52	27.19	99.14	1,731.56	-10.22	-10.22	270.93	0.57
04/04/2010 0:00	1,796.83	26.39	100.74	1,742.55	-11.18	-11.18	276.39	2.62
04/04/2010 0:00	1,810.97	26.3	100.29	1,755.22	-12.32	-12.32	282.56	0.46
04/04/2010 12:00	1,824.85	26.61	100.48	1,767.65	-13.44	-13.44	288.65	0.69
04/04/2010 12:00	1,838.89	27.12	101.13	1,780.17	-14.62	-14.62	294.88	1.26

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)
05/04/2010 0:00	1,852.12	26.44	102.35	1,791.98	-15.84	-15.84	300.71	1.98
05/04/2010 12:00	1,879.37	26.36	101.52	1,816.39	-18.34	-18.34	312.57	0.42
05/04/2010 12:00	1,892.37	26.37	101.13	1,828.04	-19.48	-19.48	318.23	0.4
07/04/2010 0:00	1,909.91	26.05	102.64	1,843.78	-21.07	-21.07	325.81	1.27
07/04/2010 12:00	1,924.00	25.45	102.32	1,856.47	-22.39	-22.39	331.79	1.31
07/04/2010 12:00	1,937.84	24.76	101.27	1,869.00	-23.59	-23.59	337.53	1.78
08/04/2010 0:00	1,951.26	24.42	101.6	1,881.20	-24.7	-24.7	343.01	0.82
08/04/2010 12:00	1,965.67	23.89	101.4	1,894.35	-25.88	-25.88	348.78	1.12
08/04/2010 12:00	1,979.15	23.61	101.58	1,906.69	-26.96	-26.96	354.11	0.64
09/04/2010 0:00	1,993.00	23.06	102.87	1,919.41	-28.12	-28.12	359.47	1.63
09/04/2010 12:00	2,006.38	22.87	103.7	1,931.73	-29.32	-29.32	364.55	0.84
09/04/2010 12:00	2,020.16	22.77	105.47	1,944.43	-30.66	-30.66	369.72	1.51
11/04/2010 12:00	2,033.84	22.93	109.75	1,957.04	-32.27	-32.27	374.78	3.66
13/04/2010 0:00	2,062.24	22.9	115.37	1,983.20	-36.51	-36.51	384.98	2.31
13/04/2010 0:00	2,075.95	22.95	116.43	1,995.82	-38.84	-38.84	389.78	0.91
13/04/2010 12:00	2,089.60	23.23	116	2,008.38	-41.21	-41.21	394.59	0.72
13/04/2010 12:00	2,103.19	23.24	115.48	2,020.87	-43.53	-43.53	399.42	0.45
14/04/2010 0:00	2,116.95	23.1	115.32	2,033.52	-45.86	-45.86	404.31	0.33
14/04/2010 0:00	2,130.53	22.96	115.4	2,046.02	-48.13	-48.13	409.11	0.32
14/04/2010 12:00	2,144.25	22.64	114.19	2,058.66	-50.36	-50.36	413.93	1.24
15/04/2010 0:00	2,158.03	22.15	113.07	2,071.41	-52.47	-52.47	418.74	1.41
17/04/2010 0:00	2,172.11	21.69	112.53	2,084.47	-54.5	-54.5	423.59	1.07
17/04/2010 12:00	2,185.79	20.98	113.43	2,097.21	-56.45	-56.45	428.17	1.71
17/04/2010 12:00	2,199.58	20.11	112.74	2,110.12	-58.34	-58.34	432.62	1.96
18/04/2010 0:00	2,213.18	19.38	111.93	2,122.92	-60.09	-60.09	436.87	1.72
18/04/2010 0:00	2,226.48	18.67	112.24	2,135.50	-61.72	-61.72	440.89	1.62
18/04/2010 12:00	2,240.42	17.97	112.6	2,148.73	-63.39	-63.39	444.94	1.53
18/04/2010 12:00	2,254.70	17.34	113.79	2,162.34	-65.1	-65.1	448.92	1.53
19/04/2010 0:00	2,268.05	16.48	114.78	2,175.11	-66.69	-66.69	452.46	2.04
19/04/2010 12:00	2,281.74	15.62	114.97	2,188.27	-68.29	-68.29	455.89	1.89
19/04/2010 12:00	2,288.06	15.26	116.08	2,194.36	-69.01	-69.01	457.41	2.21

Cost Breakdown

Intermediate Costs were more than expected. Drilling was very slow averaging only 1.8 – 2.2m/hr. Adding to the slow penetration rate was some unstable formations that required high density mud to control and some severe torque. The following is a complete breakdown of the costs associated with this hole section:

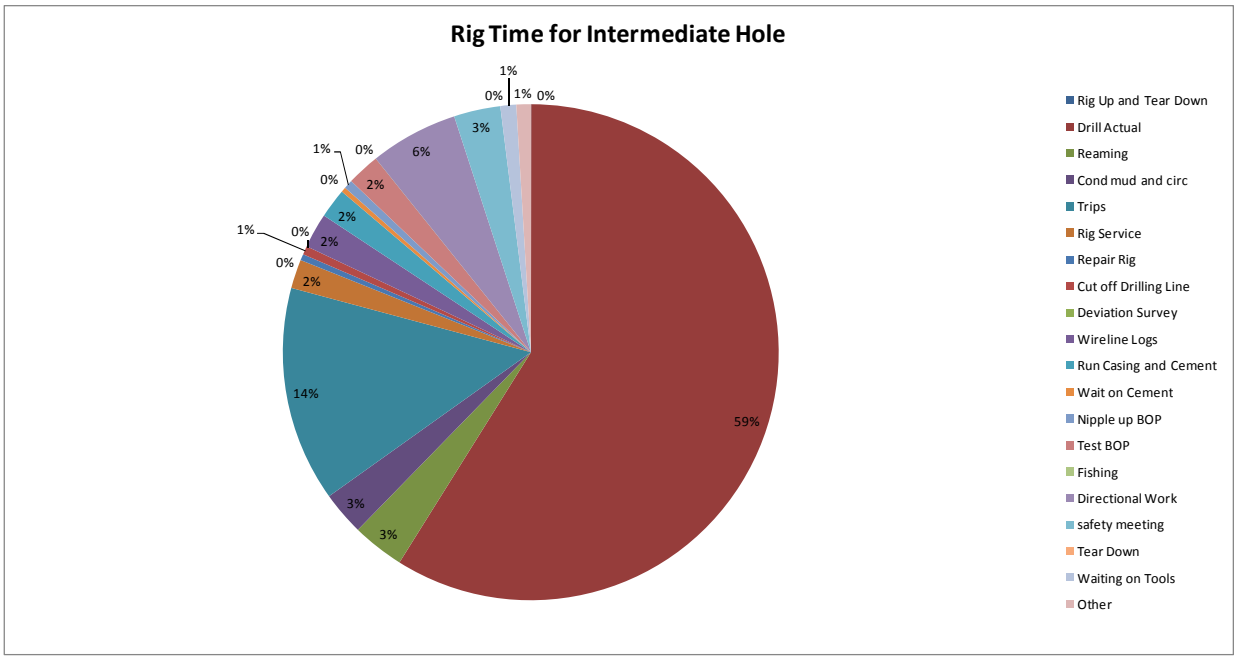
Cost Description	Total	Total%
Drilling: Daywork	$ 690,900.00	18%
Fuel/Lube Oil	$ 220,152.30	6%
Travel and Subsistence	$ 88,200.00	2%
Bits	$ 197,549.00	5%
Miscellaneous Consumables	$ 23,639.16	1%
Mud-Chemicals	$ 232,667.92	6%
Intermediate Casing	$ 460,000.00	12%
Intermediate strg(s)	$ 186,436.00	5%
Casing Services	$ 31,167.00	1%
Directional Services	$ 779,997.28	21%
Mud Logger	$ 120,388.00	3%
Open Hole Logs	$ 76,851.00	2%
Rentals	$ 348,175.00	9%
Trucking	$ 39,225.00	1%
Transportation	$ 10,233.97	0%
Geological Supervision	$ 54,000.00	1%
Wellsite Supervision	$ 90,825.00	2%
Miscellaneous Drilling Services	$ 148,732.05	4%
Total	**$ 3,799,138.68**	**100%**



Time breakdown

This section was drilled out on March 8th/2010.

Activity	Total	Total %
Rig Up and Tear Down	0.25	0%
Drill Actual	678.25	59%
Reaming	39.25	3%
Cond mud and circ	32.75	3%
Trips	161.5	14%
Rig Service	21.75	2%
Repair Rig	4.5	0%
Cut off Drilling Line	6.5	1%
Deviation Survey	0	0%
Wireline Logs	26	2%
Run Casing and Cement	22.25	2%
Wait on Cement	3.75	0%
Nipple up BOP	6.75	1%
Test BOP	24.75	2%
Fishing	0	0%
Directional Work	66	6%
safety meeting	35	3%
Tear Down	0	0%
Waiting on Tools	12	1%
Other	10.75	1%
Total	**1152**	**100%**


Rig Time for Intermediate Hole
59%
3%
3%
14%
2%
0%
1%
0%
2%
2%
0%
1%
0%
2%
6%
3%
0%
1%
0%
Rig Up and Tear Down
Drill Actual
Reaming
Cond mud and circ
Trips
Rig Service
Repair Rig
Cut off Drilling Line
Deviation Survey
Wireline Logs
Run Casing and Cement
Wait on Cement
Nipple up BOP
Test BOP
Fishing
Directional Work
safety meeting
Tear Down
Waiting on Tools
Other

Appendix O

Main Hole Recap

NALCOR

MAIN HOLE RECAP OF OPERATIONS

SEAMUS ET AL #1
APRIL - MAY 2010

Executive Summary Main Hole Section 216mm

The main hole section (216mm diameter) was drilled out on April 26/2010 at 9:45. This section was the final section of the well and was drilled to a total measured depth of 3160m. Drilling operations were fairly routine with no significant hole issues including no sidetracks, fishing, well kicks or uncontrolled deviation issues.

Drilling was somewhat slow with rate of penetration in the 1.5 _ 5.7 m/hr range. The hard formations drilled contributed to the slow penetration rates and were expected. High Torque was evident while drilling this section and was mitigated with extra additions of polymers and graphite lubricants. Prior to reaching total depth the density of the fluid had to be increased in order to stabilize the well; the density was increased to 1210 kg/m3. Drilling continued to total depth of 3160m. At TD extensive wireline logs were run including a VSP. The logging runs were successful with no bridged runs and excellent data recovery. Overall this section of the well had few problems and was drilled within expected time and cost parameters.

The Rig was released at 12:00 PM on May 22/2010 and was racked on location pending the approval of the next well in this project.

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Bit Record

9 bits were used on main hole. Drilling was similar to the top sections; hard and slow. Rate of penetrations varied from 1.5 - 5.7m/hr. The following is a detailed bit record for the main hole section.

BHA No.	Bit Run	Size (mm)	Make	Model	SN	IADC Codes	TFA (incl Noz) (mm^2)	Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (hrs)	BHA ROP (m/hr)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Bit Dull
22	20	216	HUGHES	GX35DX	5163640	537	1,504		2,298.00	2,485.00	321	56.25	5.7	20	12	30	25	-------
23	21	216	HUGHES	GX-30DX	6065998	537	581	11.1/11.1/11.1/11.1/11.1/1	2,485.00	2,767.00	240	51	4.7	20	20	30	30	-------
24	22	216	HUGHES	HCD506Z	7213261	547	284	9.5/9.5/9.5/9.5	2,767.00	2,811.00	25	10.25	2.4	12	10	30	30	3-3-CT-A-X-0-WT-PR
25	23	216	HUGHES	GX-35DX	6075552	547	305	11.1/11.1/11.9	2,811.00	2,842.00	29	19.25	1.5	20	18	30	30	8-8-LT-A-E-16.00-WT-TO
26	24	216	HUGHES	HR-044GDX	6061790	617	610	11.1/11.1/11.9/11.1/1	2,842.00	2,924.00	71	37.75	1.9	18	16	4045	35	8-8-LT-A-E-16.00-WT-TO
27	25	216	REED	R40APDH	KB1429	617	914	11.1/11.1/11.9/11.1/1	2,924.00	2,977.00	53	18.75	2.8	16	16	45	45	1-2-WT-S-E-0.00-WT-DTF
28	26	216	HUGHES	GX-44DX	6059477	617	305	11.1/11.1/11.9	2,979.00	3,079.00	90	44.5	2	16	13	45	30	2-2-BT-H-E-0.00-WT-HR
29	27	216	REED	R40ADH	KB1434	617	290	11.1/11.1/11.1	3,079.00	3,160.00	81	32.75	2.5	16	9	60	45	4-7-LT-A-E-0.00-BT-TD
30	RR.28	216	HUGHES	GX-44DX	6059477	617	290	11.1/11.1/11.1										-------

Sidetrack Hole

There were no sidetrack holes in this section.

Fishing operations

There was no fishing operations carried out in this section.

Well Kicks

There were no kicks of any type while drilling this section

Formation Leak-off Tests

A formation integrity test was carried out after drilling out.

Casing

Production casing was on location and ready to be run after logging was complete. After evaluating the logs the decision was made to run cement plugs so the casing was saved for possible use on the next well.

Cement

The main hole was plugged with 3 plugs. The following table summarizes the cement job on this well:

Cement Summary Main						
Vol (t)	Type	Additive	Density (Kg/m^3)	yeild m^3/t)	Slurry(m^3)	Interval
2.65	Class G Oilwell Bulk	0.5% CD-31 Dispersant 0.3% R-3 Cement Retarder	1901	0.757	2	3101 - 3151m
7	Class G Oilwell Bulk	0.5% CD-31 Dispersant 0.2% R-3 Cement Retarder	1518	1.317	5.3	2242 - 2342m
5.68	Class G Oilwell Bulk	0.5% CD-31 Dispersant 0.2% R-3 Cement Retarder	1901	0.757	4.3	2192 - 2300m

PLUG # 1 Plug on bottom with estimated top @ 3101 m.
PLUG # 2 Tagged top with drill string @ 2303 m.
PLUG # 3 Tagged top with drill string @ 2213 m.

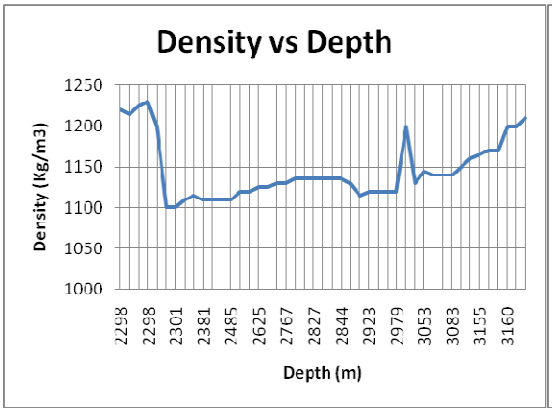
Drilling Fluid

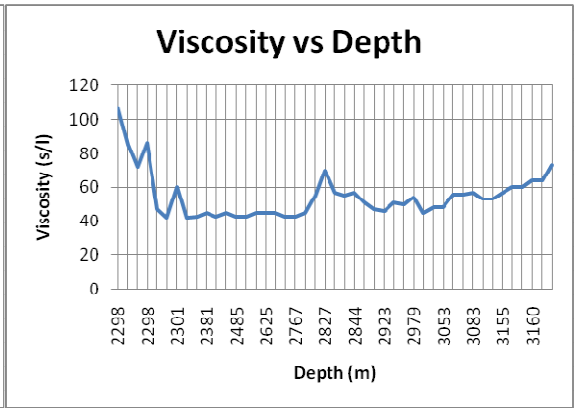
The drilling fluid used on this section was a typical gel/chemical type fluid with added shale inhibitive polymers. While drilling torque became an issue and some graphite type material was added to help reduce torque. A full service mud engineer was on location in order to minimize any issues that could be caused by poor mud properties. The drilling fluid performed well and was the best choice for this type of well. The following table is a recap of the daily fluid properties:

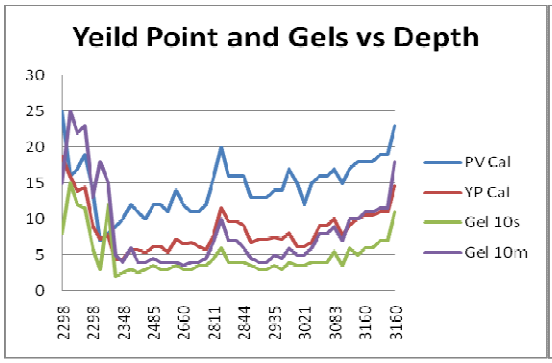
Table of fluid properties for the main hole section (216mm)

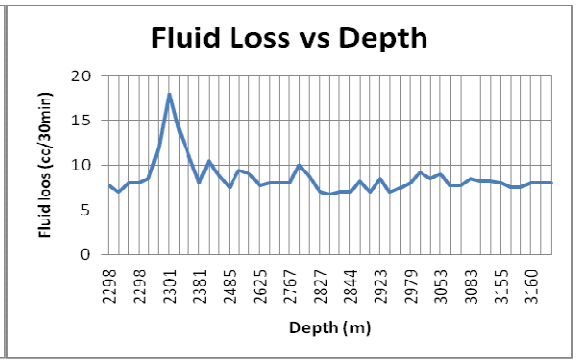
Date	Depth (mKP)	Density (kg/m3)	Visc (s/L)	PV Cal (cp)	YP Cal (Pa)	Gel (10s Pa)	Gel (10m Pa)	Filtrate (ml/30 min)	pH	Ca++ (mg/L)	Cl- (mg/L)	MBT (kg/m3)
21/04/2010	2298	1220	107	25	18.7	8	15	7.8	9	120	550	55
22/04/2010	2298	1215	85	16	15.8	15	25	7	9	80	600	70
22/04/2010	2298	1225	72	17	13.9	12	22	8	8.75	80	600	70
23/04/2010	2298	1230	86	19	14.4	11.5	23	8	8.75	80	600	65
24/04/2010	2298	1200	47	14	9.1	6	13	8.5	8.5	80	500	60
25/04/2010	2298	1100	42	7	7.2	3	18	12	10.5	120	500	40
26/04/2010	2301	1100	60	8	7.7	12	15	18	12	200	500	45
26/04/2010	2308	1110	42	9	4.3	2	5	14	9	140	500	45
27/04/2010	2348	1115	43	10	4.3	2.5	4	11	8.7	40	500	40
27/04/2010	2381	1110	45	12	5.7	3	6	8	9	40	500	40
28/04/2010	2423	1110	43	11	5.7	2.5	4	10.5	9	20	450	45
28/04/2010	2450	1110	45	10	5.3	3	4	8.8	9	40	450	45
29/04/2010	2485	1110	43	12	6.2	3.5	4.5	7.6	9.5	40	500	50
30/04/2010	2519	1120	43	12	6.2	3	4	9.5	9	40	600	50
30/04/2010	2553	1120	45	11	5.3	3	4	9	9	40	550	50
01/05/2010	2625	1125	45	14	7.2	3.5	4	7.8	9	40	550	50
01/05/2010	2660	1125	45	12	6.5	3	3.5	8	9	40	550	50
02/05/2010	2743	1130	43	11	6.7	3	4	8	8.7	40	500	50
02/05/2010	2767	1130	43	11	6.2	3.5	4	8	9	40	500	50
03/05/2010	2794	1135	45	12	5.7	3.5	4.5	10	8.75	40	500	55
03/05/2010	2811	1135	55	16	7.9	4.5	7	8.7	10	100	500	55
04/05/2010	2827	1135	70	20	11.5	6	10	7	9.5	80	500	50
04/05/2010	2837	1135	57	16	9.6	4	7	6.8	9	80	550	50
05/05/2010	2842	1135	55	16	9.6	4	7	7	9	80	550	50
05/05/2010	2844	1135	57	16	9.1	4	6	7	8.5	80	550	55
06/05/2010	2887	1130	51	13	6.7	3.5	4.5	8.2	8.75	40	600	55
06/05/2010	2906	1115	47	13	7.2	3	4	7	9	80	600	55
07/05/2010	2923	1120	46	13	7.2	3	4	8.5	9	80	600	55
08/05/2010	2935	1120	51	14	7.4	3.5	5	7	9	60	600	50
08/05/2010	2960	1120	50	14	7.2	3	4.5	7.5	9.2	80	600	50
09/05/2010	2979	1120	54	17	8.1	4	6	8	9	80	600	55
10/05/2010	3002	1200	45	15	6.2	3.5	5	9.2	9	80	550	50
10/05/2010	3021	1130	48	12	6.2	3.5	5	8.5	9	60	550	55
11/05/2010	3053	1145	48	15	6.7	4	6	9	9.25	40	550	55
11/05/2010	3073	1140	56	16	9.1	4	8	7.8	9.5	40	500	55
12/05/2010	3079	1140	56	16	9.1	4	8	7.8	9.5	40	500	55
13/05/2010	3083	1140	57	17	10.1	5.5	9	8.5	9	40	600	60
13/05/2010	3099	1150	53	15	7.7	3.5	7	8.2	9.2	60	600	60
14/05/2010	3125	1160	53	17	9.1	6	10	8.2	9.25	60	550	55
14/05/2010	3155	1165	57	18	10.1	5	10	8	9.5	40	600	55
15/05/2010	3160	1170	60	18	10.5	6	11	7.6	9.7	40	650	55
16/05/2010	3160	1170	60	18	10.5	6	11	7.6	9.7	40	650	55
17/05/2010	3160	1200	64	19	11	7	11.5	8	9.25	40	700	55
18/05/2010	3160	1200	64	19	11	7	11.5	8	9.25	40	700	55
19/05/2010	3160	1210	73	23	14.6	11	18	8	9	40	700	55

Graphs of important fluid properties for the main hole section (216mm)





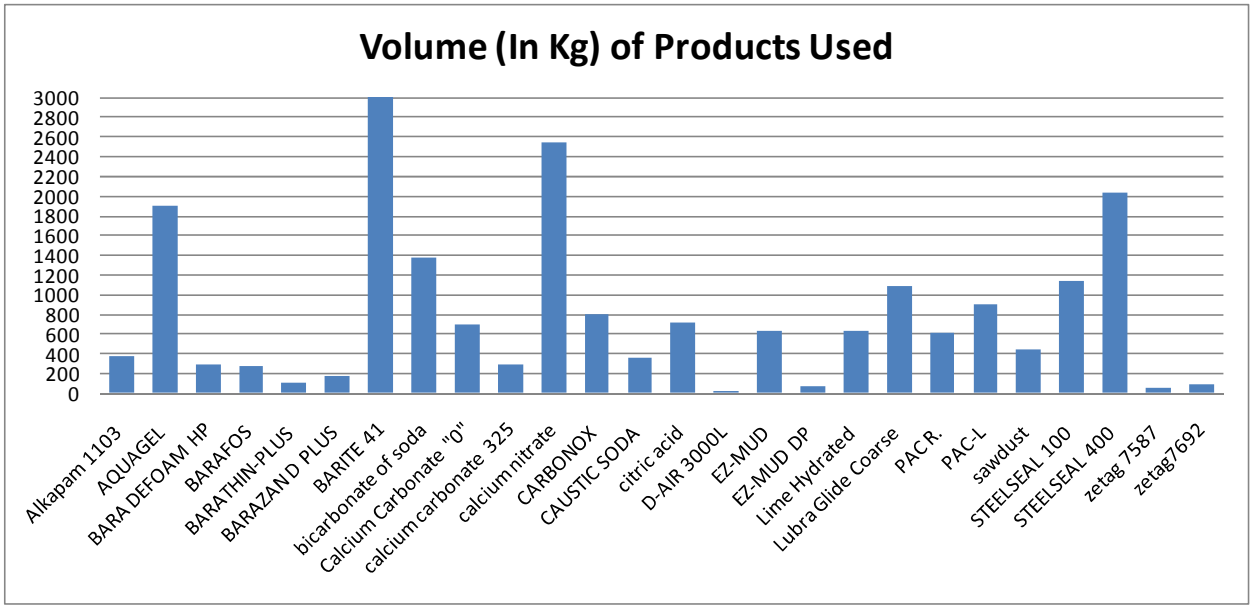




Drilling Fluid Product Usage

Material	Unit Size	Quantity	# Units	Total Kg	Total Cost
Engineering/Services					
Drilling Fluids Engineer	day(s)	33.00			$31,350.00
Mud balance	day(s)	30.00			$ 750.00
		SubTotal	**$**		**32,100.00**
Transport/Packaging Cost					
20L Pail Enviro Charge	each	49.00			$ 980.00
Pallets	each	109.00			$ 2,725.00
Re-shrinkw rap On Location	each	29.00			$ 725.00
Shrink w rap	each	109.00			$ 2,725.00
Trucking on BWDT31032010 +10%	each	1.00			$ 880.00
Trucking Products Pasadena To Rig +10%	each	1.00			$13,014.21
		SubTotal	**$**		**21,049.21**

Fluids/Products: Drilling Cost		weight (kg)	# bags	Kg total	cost
Alkapam 1103 (210711)	25 kg bag	25	15.00	375	$ 3,695.40
AQUAGEL (201060)	22.68 kg bag	22.68	84.00	1905.12	$ 992.04
BARA DEFOAM HP (101252961)	5 gal pail	20	15.00	300	$ 5,315.85
BARAFOS (101253004)	22.68 kg bag	22.68	12.00	272.16	$ 1,165.20
BARATHIN-PLUS (375983)	11.34 kg bag	11.34	10.00	113.4	$ 823.90
BARAZAN D PLUS (201681)	11.34 kg bag	11.34	15.00	170.1	$ 2,773.35
BARITE 41 (497924)	40 kg bag	40	1,504.00	60160	$40,728.32
bicarbonate of soda (210760)	50 lb bag	22.68	61.00	1383.48	$ 2,056.31
Calcium Carbonate "0" (210774)	25 kg bag	25	28.00	700	$ 335.16
calcium carbonate 325 (210775)		25	12.00	300	$ 143.64
calcium nitrate (210784)	80 lb bag	33	77.00	2541	$ 4,099.48
CARBONOX (201067)	25 kg bag	25	32.00	800	$ 597.44
CAUSTIC SODA (201068)	22.68 kg bag	22.68	16.00	362.88	$ 766.56
citric acid (210795)	25 kg bag	25	29.00	725	$ 4,601.72
D-AIR 3000L (101287331)	18.9 l pail	20	1.00	20	$ 827.94
EZ-MUD (201215)	20 l pail	20	32.00	640	$ 4,197.12
EZ-MUD DP (201378)	50 lb bag	22.68	3.00	68.04	$ 695.34
Lime Hydrated (210869)	20 kg bag	20	32.00	640	$ 363.52
Lubra Glide Coarse (221285)	22.68 kg bag	22.68	48.00	1088.64	$18,871.20
PAC R. (201319)	22.68 kg bag	22.68	27.00	612.36	$ 4,247.37
PAC-L (201318)	50 lb bag	22.68	40.00	907.2	$ 6,292.40
saw dust (201420)	11.34 kg bag	11.34	40.00	453.6	$ 277.20
STEELSEAL 100 (101618888)	50 lb bag	22.68	50.00	1134	$11,810.50
STEELSEAL 400 (101618889)	50 lb bag	22.68	90.00	2041.2	$21,258.90
zetag 7587 (210895)	25 kg bag	25	2.00	50	$ 791.18
zetag7692 (210894)	25 kg bag	25	4.00	100	$ 3,315.40
		SubTotal	**$**		**141,042.44**
		Interval Total Cost	**$**		**194,434.20**



Note: Volume (In kg) for barite exceeds 60,000 kg and exceeds the graph parameters

Safety

Safety is an important part off all drilling operations. Daily safety meetings are held on the rig that review typical operations and safety procedures performed on the rig. The following table is a summary of the safety meetings held on the rig routinely on this hole section:

#	Date	Description	Type
71	20/03/2010 0:00	KICK WARNING SIGNS	Safety Meeting
72	20/03/2010 12:00	SETTING & PULLING SLIPS	Safety Meeting
73	21/03/2010 0:00	SHUT-IN PROCEDURES	Safety Meeting
74	21/03/2010 12:00	MIXING CHEMICALS	Safety Meeting
75	22/03/2010 0:00	SPILLS	Safety Meeting
76	22/03/2010 12:00		Safety Meeting
77	23/03/2010 0:00	TRIPPING	Safety Meeting
78	23/03/2010 12:00	HOUSEKEEPING	Safety Meeting
79	24/03/2010 0:00	INSTALL CAMERA @ MONKEY BOARD	Safety Meeting
80	24/03/2010 12:00	MOUSEHOLE CONNECTIONS	Safety Meeting
81	25/03/2010 0:00	WORKING IN EXTREME WINDS	Safety Meeting
82	25/03/2010 12:00	TRIPPING	Safety Meeting
83	26/03/2010 0:00	PRESSURE TESTING	Safety Meeting
84	26/03/2010 12:00	TRAPPED TORQUE	Safety Meeting
85	27/03/2010 0:00	TONG OPERATIONS	Safety Meeting
86	27/03/2010 12:00	ICE PLUGS	Safety Meeting
87	28/03/2010 0:00	PIPE SPINNER USE	Safety Meeting
88	28/03/2010 12:00	CATWALK OPERATIONS	Safety Meeting
89	29/03/2010 0:00	SAFTEY HARNESS AND LANYARDS	Safety Meeting
90	29/03/2010 12:00	CHANGING OUT TONG DIES	Safety Meeting
91	30/03/2010 0:00	GENERAL LOCK OUT PROCEDURES	Safety Meeting
92	30/03/2010 12:00	SLIP AND CUT	Safety Meeting
93	31/03/2010 0:00	MOVING MUD PRODUCTS	Safety Meeting
94	31/03/2010 12:00	B.O.P DRILL	Safety Meeting
95	01/04/2010 0:00	TRAPPED TORQUE	Safety Meeting
96	01/04/2010 12:00	MIXING CHEMICALS	Safety Meeting
97	02/04/2010 0:00	DIRECTIONAL ASSEMBLY	Safety Meeting
98	02/04/2010 12:00	TRIPPING IN HOLE	Safety Meeting
99	03/04/2010 0:00	POWER TOOL OPERATIONS	Safety Meeting
100	03/04/2010 12:00	RIG SERVICE	Safety Meeting
101	04/04/2010 0:00	GENERAL MAINTENANCE	Safety Meeting
102	04/04/2010 12:00	BOP DRILL	Safety Meeting
103	05/04/2010 0:00	RIG SERVICE	Safety Meeting
104	05/04/2010 12:00	CONNECTIONS	Safety Meeting
105	06/04/2010 0:00	LAY DOWN 6.5\ DRILL COLLARS	Safety Meeting
106	06/04/2010 12:00	PICKING UP DIRECTIONAL TOOLS	Safety Meeting
107	07/04/2010 0:00	DRIVING HOME ON LONG CHANGE	Safety Meeting
108	07/04/2010 12:00	CHANGING MWD SENSOR ON STANDPIPE	Safety Meeting
109	08/04/2010 0:00	CHANGING OUT HEAD ON PUMP	Safety Meeting

#	Date	Description	Type
110	08/04/2010 12:00	BOP DRILL	Safety Meeting
111	09/04/2010 0:00	HOUSE KEEPING	Safety Meeting
112	09/04/2010 12:00	HOUSEKEEPING JTA 2-A	Safety Meeting
113	10/04/2010 0:00	RELEASING TABLE TORQUE ON CONNECTIONS	Safety Meeting
114	10/04/2010 12:00	HANDLING TONGS FOR 9in. COLLARS	Safety Meeting
115	11/04/2010 0:00	REAM IN HOLE	Safety Meeting
116	11/04/2010 12:00	MIXING CHEMICALS	Safety Meeting
117	12/04/2010 0:00	LAYING OUT SINGLES	Safety Meeting
118	12/04/2010 12:00	RIG SERVICE	Safety Meeting
119	13/04/2010 0:00	HIGH SPEED ROTARY	Safety Meeting
120	13/04/2010 12:00	RELEASING TABLE TORQUE	Safety Meeting
121	14/04/2010 0:00	DRIVING HOME ON LONGCHANGE	Safety Meeting
122	14/04/2010 12:00	BOP DRILL	Safety Meeting
123	15/04/2010 0:00	MOVING MUD PRODUCT WITH LOADER	Safety Meeting
124	15/04/2010 12:00	HOUSEKEEPING	Safety Meeting
125	16/04/2010 0:00	PRESSURE TESTING	Safety Meeting
126	16/04/2010 12:00	SLIPCUT DRILL LINE	Safety Meeting
127	17/04/2010 0:00	HOUSEKEEPING	Safety Meeting
128	17/04/2010 12:00	RIGTONG OPERATION	Safety Meeting
129	18/04/2010 0:00	BOP DRILL	Safety Meeting
130	18/04/2010 12:00	SETTING AND PULLING SLIPS	Safety Meeting
131	19/04/2010 0:00	MOVING MUD NPRODUCT WITH LOADER	Safety Meeting
132	19/04/2010 12:00	CHANGING OUT TONG DIES	Safety Meeting
133	20/04/2010 0:00	LAYING OUT 9in. DRILL COLLARS	Safety Meeting
134	20/04/2010 12:00	TRIPPING	Safety Meeting
135	21/04/2010 0:00	RIGGING UP LOGGERS	Safety Meeting
136	21/04/2010 12:00	RIGGING UP LOGGERS	Safety Meeting
137	22/04/2010 0:00	BOP DRILL	Safety Meeting
138	22/04/2010 12:00	WORKING W/ GREEN HAND	Safety Meeting
139	23/04/2010 0:00	TRIPPING IN HOLE	Safety Meeting

#	Date	Description	Type
140	23/04/2010 12:00	TRAPPED TORQUE	Safety Meeting
141	24/04/2010 0:00	POWER TONGS	Safety Meeting
142	24/04/2010 12:00	RUN CASING & CEMENT	Safety Meeting
143	25/04/2010 0:00	SETTING CASING SLIPS	Safety Meeting
144	25/04/2010 12:00	PRESSURE TESTING	Safety Meeting
145	26/04/2010 0:00	PICKING UP DIR TOOLS	Safety Meeting
146	26/04/2010 12:00	DRILL CEMENT	Safety Meeting
147	27/04/2010 0:00	HEARING PROTECTION	Safety Meeting
148	27/04/2010 12:00	MOUSEHOLE CONNECTIONS	Safety Meeting
149	28/04/2010 0:00	BOP DRILL	Safety Meeting
150	28/04/2010 12:00	MIXING CHEMICALS	Safety Meeting
151	29/04/2010 0:00	DRILLING INTO PAYZONE	Safety Meeting
152	29/04/2010 12:00	TRIPPING OUT OF HOLE	Safety Meeting
153	30/04/2010 0:00	SHUT-IN PROCEDURES	Safety Meeting
154	30/04/2010 12:00	REVIEWED SAFETY ALERTS	Safety Meeting
155	01/05/2010 0:00	HOUSEKEEPING	Safety Meeting
156	01/05/2010 12:00	TRIPPING OUT	Safety Meeting
157	02/05/2010 0:00	MOUSEHOLE CONNECTION W/ DRILL PIPE	Safety Meeting
158	02/05/2010 12:00	TRIPPING OUT	Safety Meeting
159	03/05/2010 0:00	TRIPING IN HOLE	Safety Meeting
160	03/05/2010 12:00	TRIPPING OUT	Safety Meeting
161	04/05/2010 0:00	WORKING IN EXTREME WIND CONDITIONS	Safety Meeting
162	04/05/2010 12:00	MIXING CHEMICALS	Safety Meeting
163	05/05/2010 0:00	PIPE SPINNER USE	Safety Meeting
164	05/05/2010 12:00	TRIPPING IN HOLE	Safety Meeting
165	06/05/2010 0:00	TRAPPED TABLE TORQUE	Safety Meeting
166	06/05/2010 12:00	MOUSEHOLE CONNECTIONS	Safety Meeting
167	07/05/2010 0:00	B.O.P. DRILL	Safety Meeting
168	07/05/2010 12:00	TR5IPPING OUT OF HOLE	Safety Meeting
169	08/05/2010 0:00	LOCK-OUT PROCEDURES	Safety Meeting
170	08/05/2010 12:00	RIG SERVICE	Safety Meeting
171	09/05/2010 0:00	KICK WARNING SIGNS	Safety Meeting
172	09/05/2010 12:00	TRIPPING IN HOLE	Safety Meeting
173	10/05/2010 0:00	BOP DRILL	Safety Meeting
174	10/05/2010 12:00	RIG SERVICE	Safety Meeting
175	11/05/2010 0:00	PULLING TIGHT ON CONNECTIONS	Safety Meeting
176	11/05/2010 12:00	MIXING CHEMICALS	Safety Meeting
177	12/05/2010 0:00	PULLING TIGHT HOLE	Safety Meeting
178	12/05/2010 12:00	PRESSURE TESTING BOP	Safety Meeting

#	Date	Description	Type
179	13/05/2010 0:00	TRIPPING IN HOLE	Safety Meeting
180	13/05/2010 12:00	HOUSEKEEPING RIG FLOOR	Safety Meeting
181	14/05/2010 0:00	ADJUSTING BRAKE HANDLE	Safety Meeting
182	14/05/2010 12:00	POWER TOOLS	Safety Meeting
183	15/05/2010 0:00	TRIP OUT OF HOLE	Safety Meeting
184	15/05/2010 12:00	DRIVING TO AND FROM LOCATION	Safety Meeting
185	16/05/2010 0:00	LOGGING	Safety Meeting
186	16/05/2010 12:00	RIG FLOOR TUGGER	Safety Meeting
187	17/05/2010 0:00	TRIPPING	Safety Meeting
188	17/05/2010 12:00	TRIPPING	Safety Meeting
189	18/05/2010 0:00	WORKING ON FLOOR MOTOR JTA 8-4	Safety Meeting
190	18/05/2010 12:00	LAYING OUT H.W.D.P	Safety Meeting
191	19/05/2010 0:00	RUNNING CEMENT PLUGS	Safety Meeting
192	19/05/2010 12:00	TRIPPING	Safety Meeting
193	20/05/2010 0:00	PIPE SPINNER USE	Safety Meeting
194	20/05/2010 12:00	HOUSEKEEPING	Safety Meeting
195	21/05/2010 0:00	LAYDOWN DRILL STRING	Safety Meeting
196	21/05/2010 12:00	LOWERING TOP SECTION	Safety Meeting
197	22/05/2010 0:00	CLEANING MUD TANKS	Safety Meeting

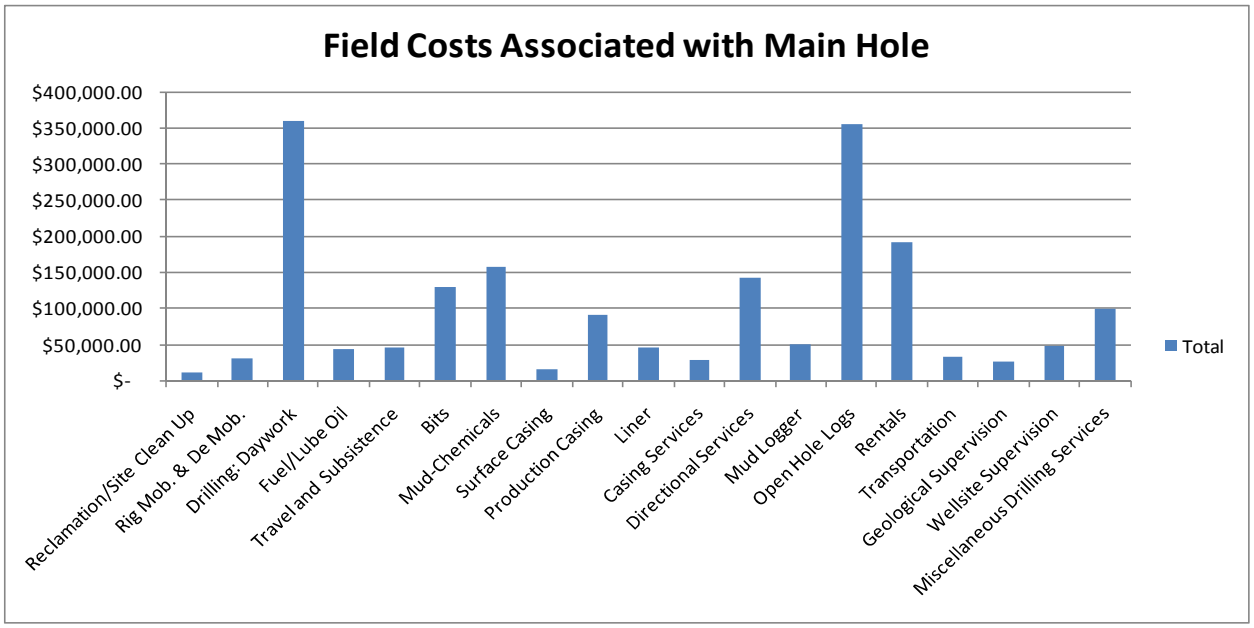
Survey

Deviation was a concern on the main hole section. The geology of this area is highly deviated and it became an issue keeping the hole completely vertical. Shlumberger directional services were on location with a mud motor and a service technician. Surveys were initially done by Schlumberger and a Teledrift was utilized when it was apparent that deviation was under control.

Cost Breakdown

Costs were in line with what was estimated. Drilling was slow averaging only 1.5 – 5.7m/hr. The single biggest expenses on this section were the drilling rig cost and extensive wire line logging program:

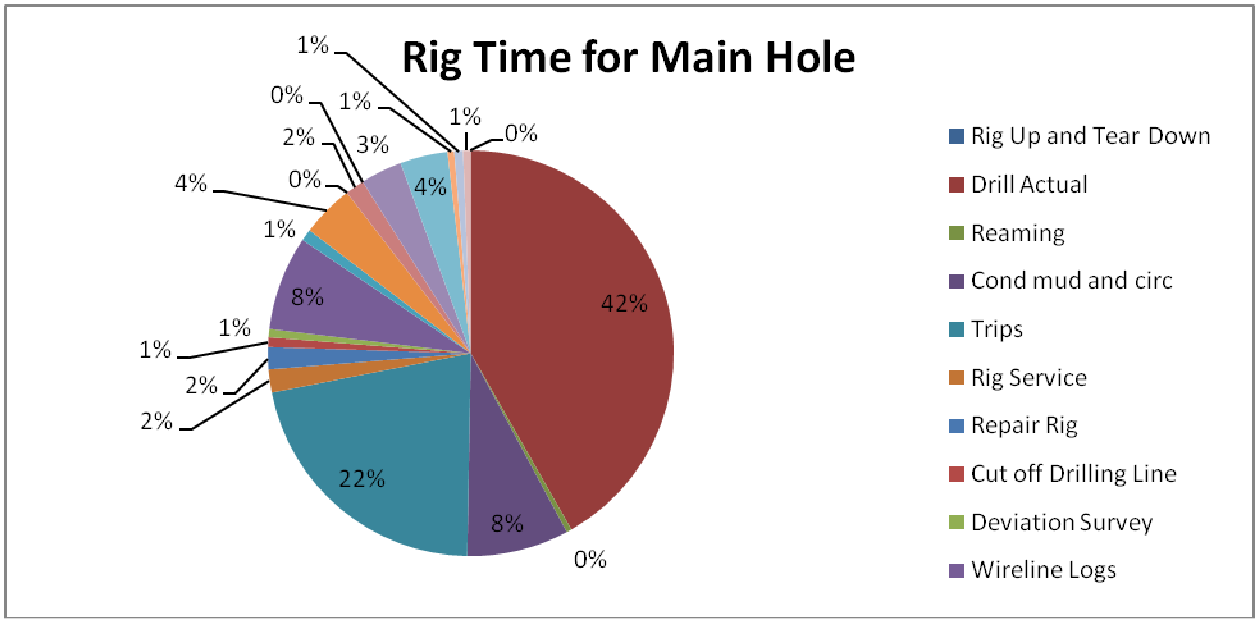
Cost Description	Total	Total%
Reclamation/Site Clean Up	$ 10,850.00	1%
Rig Mob. & De Mob.	$ 30,000.00	2%
Drilling: Daywork	$ 359,500.00	19%
Fuel/Lube Oil	$ 42,650.00	2%
Travel and Subsistence	$ 45,900.00	2%
Bits	$ 129,794.00	7%
Mud-Chemicals	$ 157,321.09	8%
Surface Casing	$ 14,878.00	1%
Production Casing	$ 91,846.00	5%
Liner	$ 45,043.00	2%
Casing Services	$ 29,360.00	2%
Directional Services	$ 143,130.78	8%
Mud Logger	$ 50,400.00	3%
Open Hole Logs	$ 354,910.00	19%
Rentals	$ 192,754.00	10%
Transportation	$ 32,000.00	2%
Geological Supervision	$ 26,400.00	1%
Wellsite Supervision	$ 46,800.00	2%
Miscellaneous Drilling Services	$ 98,861.00	5%
Total	**$ 1,902,397.87**	**100%**



Time breakdown

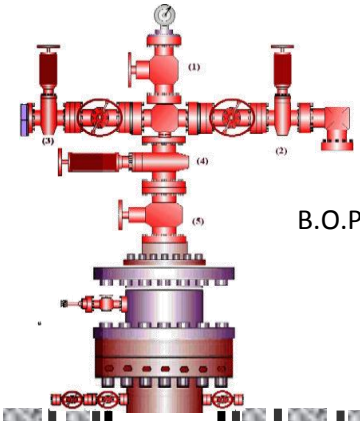
The well was drilled out starting at 9:45 on April 26/2010. Main hole took approximately 26 days to drill, log and run plugs. The following is a time breakdown from April 26th (Drill out) to May 22nd (when Rig Release).

Activity	Total	% total
Rig Up and Tear Down	0	0%
Drill Actual	255.5	42%
Reaming	2.5	0%
Cond mud and circ	49.75	8%
Trips	132.25	22%
Rig Service	11.25	2%
Repair Rig	10.75	2%
Cut off Drilling Line	4.75	1%
Deviation Survey	4	1%
Wireline Logs	46	8%
Run Casing and Cement	5.75	1%
Wait on Cement	25.5	4%
Nipple up BOP	0	0%
Test BOP	9.25	2%
Fishing	0	0%
Directional Work	20.25	3%
safety meeting	23.25	4%
Tear Down	3.25	1%
Waiting on Tools	4.25	1%
Other	3.75	1%
Total	**612**	**100%**



Appendix P

Well Schematic



B.O.P

Conductor @ 20 mKB

Surface Casing
339.7 mm @ 601 mKB

Cement Plug #3
2213 -2303 m

Cement Plug #2
2303 -2342 m

Intermediate
Casing
244.5 mm @ 2292.5 mKB

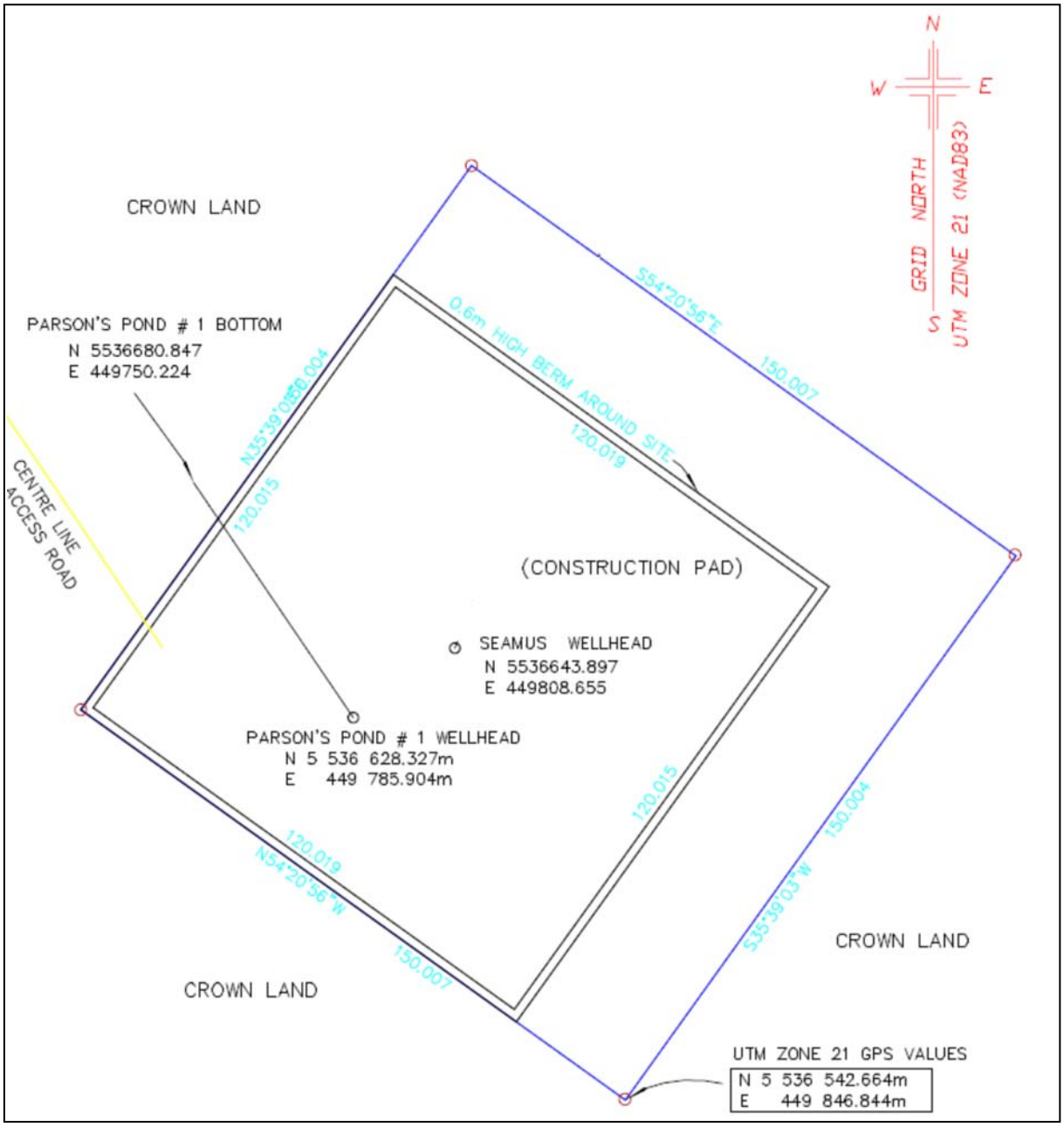
Main hole
216 mm @ 3160 mKB

Cement Plug #1
3110 - 3160 m

Appendix Q

Legal Survey

APPENDIX 16: Legal Survey



NAD 83; Zone 21:

SEAMUS Surface Co-ordinates: X: 5 536 643.897; Y: 449 808.655
SEAMUS Bottome Hole Co-ordinates: X: 5 536 643.897; Y: 449 808.655
Existing Wellhead (Contact Exploration): X: 5 536 628.327; Y: 449 785.904
Bottom Hole Exisitng Wellhead (Contact Exploration): X: 5 536 643.897 Y: 449 808.655

NAD 27: Zone 21

SEAMUS Surface Co-ordinates: X: 5 536 433.53 Y: 449 731.13
SEAMUS Bottome Hole Co-ordinates: X: 5 536 433.53 Y: 449 731.13
Existing Wellhead (Contact Exploration: X: 5 536 417.96 Y: 449 708.38
Bottom Hole Exisitng Wellhead (Contact Exploration): X: 5 536 433.53 Y: 449 731.13

NAD 83: UTM Zone 21:

SEAMUS Surface Co-ordinates:

X: 5 536 643.897 Y: 449 808.655

SEAMUS Bottome Hole Co-ordinates:

X: 5 536 643.897 Y: 449 808.655

Existing Wellhead (Contact Exploration):

X: 5 536 628.327 Y: 449 785.904

Bottom Hole Exisitng Wellhead (Contact Exploration):

X: 5 536 643.897 Y: 449 808.655

NAD 27: UTM Zone 21:

SEAMUS Surface Co-ordinates:

X: 5 536 433.53 Y: 449 731.13

SEAMUS Bottome Hole Co-ordinates:

X: 5 536 433.53 Y: 449 731.13

Existing Wellhead (Contact Exploration):

X: 5 536 417.96 Y: 449 708.38

Bottom Hole Exisitng Wellhead (Contact Exploration):

X: 5 536 433.53 Y: 449 731.13

Appendix R

Acronyms

List of Acronyms

daN – Decanewton

mKB – Meters from the Kelly Bit

ROP – Rate of Penetration

kPa - Kilopascals

BOP – Blow Out Preventer

BTC – Buttress Type Connection

TD – Total Depth

TVD – Total Vertical Depth

VSP - Vertical Seismic Profile

RPM – Revolutions per Minute