



NALCOR ENERGY – OIL AND GAS INC

FINAL WELL REPORT

For

Nalcor Energy et al Finnegan #1

At

Permit 03-102

Western Newfoundland

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1 Introduction

Nalcor Energy et al Finnegan #1 was an exploratory well drilled by the operator, Nalcor Energy - Oil & Gas Inc., in the Parson’s Pond area of Western Newfoundland (See map in Figure 3 below). The well is classified as a sweet oil, wildcat well and will be used to help determine the commercial viability of an onshore well and to gather information to be used for future plays in the west coast area. Nalcor Energy et al Finnegan #1 was also drilled with a vertical orientation. A seismic image with the well path is shown in Figure 4 below.

Nalcor Energy – Oil & Gas Inc. was the operator of the Nalcor Energy et al Finnegan 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 Figure 1 below.

	EL 03-101	EL 03-102	EL 03-103
Nalcor Energy	62.1429%	71.8707%	69.6010%
Leprechaun Resources	9.2857%	10.7393%	10.3990%
Vulcan Minerals	13.5714%	7.39%	10.00%
Investcan	14.00%	9.00%	9.00%
Deer Lake Oil and Gas	1.00%	1.00%	1.00%

Figure 1: Parsons Pond Partners and Interest

Nalcor Energy 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).

The 18 inch conductor pipe was set on August 12th into 20 m of bedrock for Nalcor Energy et al Finnegan #1 and a diverter was installed. The well was then spud on September 9th, 2010 at 9:00 am into the Allochthon A formation (See Figure 2 below for the formations and specific depths of each). The Target depth was 3,254 m in the Hawke Bay Formation. A 444.5 mm surface hole was drilled to a depth of 572 mKB, which was completed on September 17th at approximately 7:15 am. 44 joints of 340 mm surface casing were run and cemented at this depth using a total of 74.6 tons of class G cement. The casing and diverter flange were cut, prepped and the casing bowl was welded on. During the testing of the surface casing, there was a failure in the weld on the casing bowl which was repaired and then retested at 1000 psi. The test was successful.

The Intermediate hole commenced drilling on September 21st with a total interval depth of 2285 m and was reached on November 1st. On November 9th, gas was discovered migrating up the annulus of the casing. The BOP was then bolted back onto the casing bowl and the degasser

line was then hooked up. Casing slips were set on November 12th followed by well shut in. A bubble test was then performed and no gas bubbles were observed. The cement casing was completed on November 8th however there were some issues with the cement setting, which are further discussed in Section 3.0.

The 216 mm main hole started drilling on November 13th and reached a total depth of 3130 m on November 25th. Wire line logs were conducted and finished on November 29th. Cementing began on November 30th and finished on December 1st. There were two 100 m cement plugs placed in the hole, one from 2930 m to 3030 m and the other from 2250 m to 2350 m. Tear down operations commenced and the drilling rig was released on December 5th.

Formations				
Formation Name	Geological Age	H₂S (%)	Final Top MD (mKB)	Final Top TVD (mKB)
Allochthon "A" Surface	Cambro-Ordovician	0.00	20.00	20.00
Allochthon "B"	Cambro-Ordovician	0.00	635.00	634.79
Allochthon "C" (fault)	Cambro-Ordovician	0.00	1,230.00	1,229.78
Allochthon "D"	Cambro-Ordovician	0.00	1,529.00	1,528.77
Goose Tickle	Ordovician	0.00	1,837.00	1,836.76
Table Point	Ordovician	0.00	1,923.00	1,922.75
Aguathuna	Ordovician	0.00	2,227.00	2,226.74
Catoche	Ordovician	0.00	2,589.00	2,588.72
Boat Harbour	Ordovician	0.00	2,619.00	2,618.72
Watts Bight	Ordovician	0.00	2,770.00	2,769.72
Cambrian - Berry Head	Cambrian	0.00	2,823.00	2,822.72
Petit Jardin	Cambrian	0.00	2,934.00	2,933.72
Marche Point	Cambrian	0.00	3,059.00	3,058.72
Final (TD)	Cambrian	0.00	3,130.00	3,130.00
Hawke Bay	Cambrian	0.00	3,160.00	-

Figure 2: Formation Tops and Depths

Parsons Pond Area



Figure 3: Parsons Pond Area Map

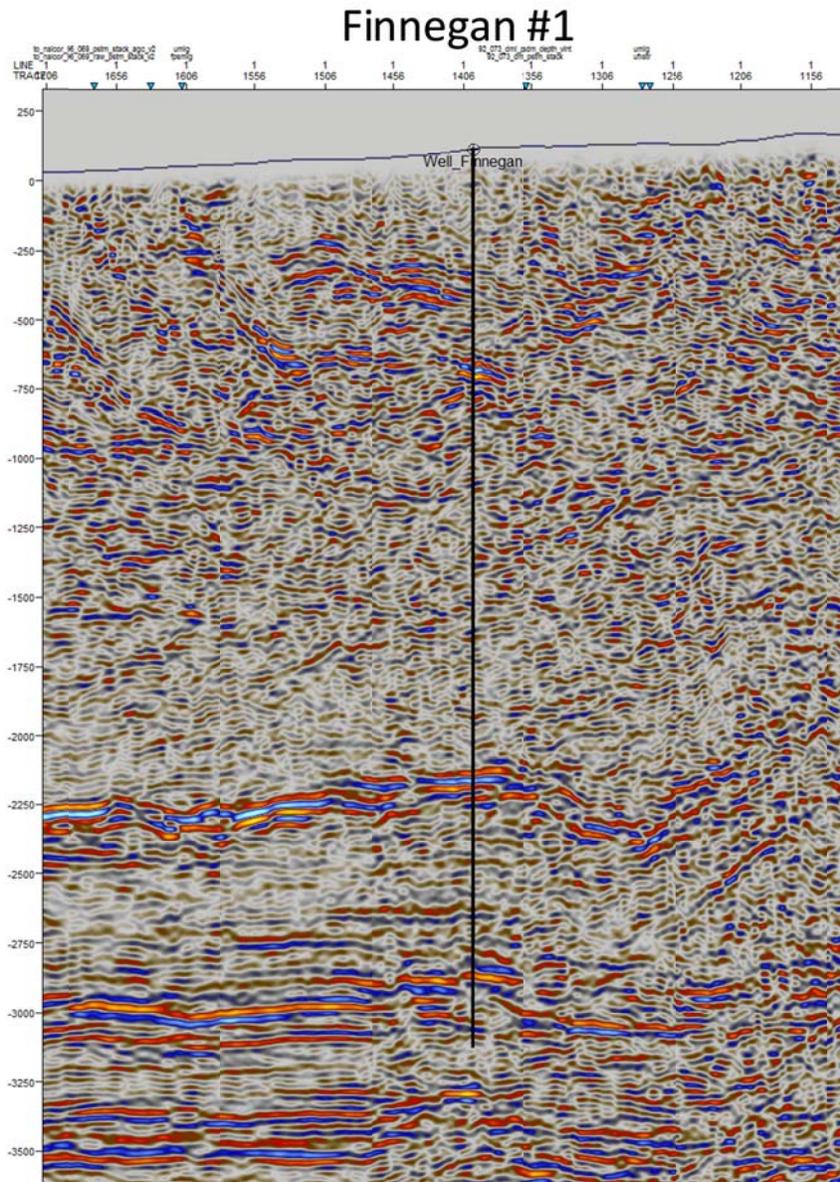


Figure 4: Nalcor Energy et al Finnegan Seismic Image and Well Path

2 General Data

Well Name	Finnegan #1
Exploration Permit	03-102
Drilling Program Approval	DPA 2010-128-02
Authority to Drill Well	ADW 2010-128-01
NAD 81 Coordinates	50° 5' 40.893" N 57° 36' 27.955" W
Operator	Nalcor Energy – Oil & Gas Inc.
Contractor	Stoneham Drilling Inc.

2.1 Well Name & Number

Nalcor Energy et al Finnegan #1

2.2 Permit

03-102

2.3 Operator

NalcorEnergy – Oil & Gas Inc
500 Columbus Drive
P.O. Box 12800, St. John's NL
A1B 0C9

2.4 Well Location

NAD 83; Zone 21:

Nalcor Energy et al Finnegan #1 Surface Co-ordinates: X: 456, 529; Y: 5, 549, 336

Nalcor Energy et al Finnegan #1 Bottom Hole Co-ordinates: X: 456, 529; Y: 5, 549, 336

2.5 Drilling Unit

<i>Name:</i>	Rig 11
<i>Company:</i>	Stoneham Drilling Inc.
<i>Construction Completed:</i>	November 2006
<i>Specifications:</i>	4500m telescopic triple with 127mm (5") drill pipe (Critical Sour)

2.6 Elevations

Well name	Nalcor Energy et al Finnegan #1
Ground Level	118.75m
Rig Floor	6.25 m from ground level

2.7 Depths and Dates

Well name	Nalcor Energy et al Finnegan # 1
Total Drilled Depth	3,130 mKB
Logged Depth	572 mKB – 3130 mKB
Plugged Back Depth	Plug #1 – 3,020 m Plug #2 – 2,350 m

Well Name	Nalcor Energy et al Finnegan #1
Rig Mobilization	August 28 th , 2010
Drilling Commencement	September 7 th , 2010
Spud	September 9 th , 2010 at 9:00 am
Drilling Completed	Dec. 2 th , 2010 at 4:15 am
Rig Released	Dec. 5 th , 2010 at 11:59 pm

2.8 Well Status

Suspended.

2.9 Time & Cost Analysis

Original AFE			Actual	
<i>Activity</i>	<i>Days</i>	<i>Cost (CAD \$)</i>	<i>Days</i>	<i>Cost (CAD \$)</i>
Drilling	75	9,091,494	89	12,697,327.79

2.10 Difficulties & Delays

1. Re-welding the surface casing bowl and retest

A 444.5 mm surface hole was drilled to a depth of 572 mKB, which was completed on September 16th at approximately 7:15 am. 340 mm surface casing was run and cemented at this depth. The casing and diverter flange were cut, prepped and the casing bowl was welded on. During the testing of the surface casing, there was a failure in the weld on the casing bowl which was repaired and then retested at 1000 psi. The test was successful. Total nonproductive time for this delay was approximately 6.25 hours.

2. Pump #2 spring repair

While drilling the 444.5 mm section, a spring on pump #2 broke on September 16th at 8:30 am. The pump was repaired and an investigation took place to determine what caused the break in the first place. Total time lost was 3 hours and 15 minutes.

3. Incident with the Brandt employee

There was a minor incident during this section of the well which occurred on September 29th. A Brant employee slipped into a wash out near the buried tank. There were no injuries. The area was then roped off, water was drained and the wash out was then filled.

4. Incident with Stoneham employee

On September 26th a Stoneham employee got the middle finger on his left hand pinched between the drill collars. The skin wasn't broken and ice was applied to the swollen finger. The employee was taken for x-rays.

5. Checking torque on pump liners

On October 3rd, high pressures were observed on mud pumps 1 and 2. The torque was checked on each pump and tightened. The total time delay caused by this problem was about 4 hours.

6. Maintenance on pump #1

On October 18th, approximately 1 hour was lost due to maintenance on pump #1. Pump heads needed repair and the liner needed to be replaced.

7. Pump throttle repair

On October 22nd approximately 1 hour and 45 minutes was lost due to troubleshooting the pump throttle. Drilling was resumed immediately after throttle was repaired.

8. MWD problems

With bits 19, 20 and 22, at depths of 2285 m, 2855 m, and 3130 m respectively, it was required to trip out of hole and change out the BHA due to no response from the MWD tool. The MWD tool had stopped pulsing.

3 Summary of Drilling Operations

3.1 Drilling Operations

3.1.1 Hole / Casing Sizes and Depths

Hole Sizes and Depths

Size	Depth (mKB)
457.2 mm	20.0
444.5 mm	572.0
311.0 mm	2,285.0
216.0 mm	3130.0

Casing Record

Well Name	Nalcor Energy et al Finnegan #1	
Casing Type	Surface	Intermediate
Casing Size	339.7 mm	244.5 mm
Weight	81.105 kg/m	64.735 kg/m
Grade	K-55	L-80
Number of Joints	43(46)	166
Connection Type	Buttress Thread	BTC
Depth of Shoe	570.00 mKB	2276.00mKB
Casing Hanger and Seal	N/A	N/A

3.1.2 444.5 mm Hole Section

Nalcor Energy et al Finnegan #1 well was spud at 9:00 am on September 9th, 2010 utilizing a 444.5 mm Smith drill bit. It was drilled at an elevation of approximately 118.75 m and is located at Parsons pond, NL, approximately 14 km to the NE of Nalcor's first well, Nalcor et al Seamus #1. The 18 inch conductor pipe, and a diverter, had previously been installed on August 12th.

Drill rig Stoneham #11 was used to drill the well and penetrated the surface hole into the Allochthon A formation.

The 444.5 mm hole section was completed on September 16th at 7:15 am reaching a total depth of 572 mKB. At 11:45 am, an attempt to trip out of hole was made but gas bubbles were encountered at a depth of 554 mKB therefore returned to bottom. CBU was performed and at 12:45 pm the trip out of hole was continued with flow checks at 554 m and 361 m depths, resulting in a total time of 6 hours.

The 339.7 mm cement casing was run on September 17th, and pressure tests were performed on September 18th. There was a leak at the casing bowl weld therefore it was re-welded and tested again the following day.

Surface hole operations were completed on September 20th resulting in a total of 8 days for drilling, and an additional 4 days to run cement casing, pressure test, and rig in the BOP.

3.1.3 311.0 mm Hole Section

The intermediate, 311.0 mm section of the Nalcor Energy et al Finnegan #1 well began on September 21st at 5:45 am. A formation integrity test was performed shortly after at 8:30 am with an applied surface pressure of 11,500 kPa resulting in a pressure gradient of 29.99 kPa/m with no leak off.

On September 26th, well was observed to be flowing during the trip in hole flow checks at a depth of 1220 m. Mud weight was increased to 1160 kg/m³, then 1170 kg/m³, but flow was still observed. The well became static when the mud weight was increased to 1200 kg/m³. It was then increased to 1250 kg/m³ for trip margin.

There was a minor incident during this section of the well which occurred on September 29th. A Brant employee slipped into a wash out near the buried tank. There were no injuries. The area was then roped off, water was drained and the wash out was then filled.

High pressure was observed on mud pumps #1 and #2 on October 3rd. The torque on the pump liners was checked and then tightened. On the following day, trip out of hole occurred at 8:45

am due to high pump pressure and ROP observed. It was found that the 3 point roller reamer was under gauge, the dog sub was 3 mm under gauge, and 4 nozzles on the drill bit were plugged with shale, sand and stator rubber.

The drilling of the intermediate section was completed on November 1st at 2:45 pm, reaching a total depth of 2280 mKB. Logging operations then commenced on November 3rd at 4:30 pm and concluded on November 6th.

Operations for the intermediate cement casing started on November 6th and then finished on November 8th. It was then observed while waiting for the cement to set that after 24 hrs the tail had set but the lead cement was still liquid. After 30 hrs, it was observed that the lead cement still wasn't set (observed to be malleable).

On November 9th, gas was discovered migrating up the annulus of the casing due to the failure of the intermediate cement job. The BOP was then bolted back onto the casing bowl and the degasser line was hooked up. The well was shut-in following the detection of gas migration, and again on November 10th and 11th. A risk assessment was performed on November 11th to determine the way forward after the cement job had failed.

Casing slips were set on November 12th and a cold cut was performed due to the presence of gas. The VAC truck tied into the casing bowl and dissipated the gas for the safety of the crew. A bubble test was then performed and no gas bubbles were observed.

On November 13th, a successful pressure test was executed and the crew returned to normal operations.

In total, this section of the well took 41 days to drill along with another 11 days of additional operations.

3.1.4 216.0 mm Hole Section

The 216 mm open hole began on November 13th at 7:15 pm into the Table Point formation. A formation integrity test was performed shortly after at 10:30 pm. The test was performed with an applied surface pressure of 21,000 kPa and an additional mud weight of 1245 kg/m³ resulting in a pressure gradient of 21.4 kPa/m with no leak off.

The 2" degasser line remained connected and directed the gas straight to the flare stack. A Pason sensor gauge was connected to the casing bowl which continuously monitored and recorded pressure readings.

The formation in this section was observed to be tight on the connections during intervals of 2731 m – 2743 m, and again from 3015 m – 3045 m. Additionally, the formation was observed to be ratty after a depth of 3113 m in turn causing the motor to stall out with the changes. It was decided to TD the well at a final depth of 3130 m on November 25th at 9:00 am due to ratty conditions and hole caving. The drilling crew then proceeded to circulate the hole clean in preparation for wireline logging and cement operations.

Wireline logs began on November 27th at 2:30 pm from a depth of 3030 m due to bottom hole conditions. No problems were encountered during this operation and it finished successfully on November 29th at 3:00 pm.

Cementing began on November 30th and finished on December 1st. There were two 100 m cement plugs placed in the hole, one from 2250 m to 2350 m and the other from 2930 m to 3030 m.

In total, this section took 12 days to drill with an additional 6 days to clean the hole, run wireline logs, and place cement plugs. The rig was then released on December 5th.

3.2 Casing and Cementing Reports

3.2.1 Casing Summary

Well Name	Nalcor Energy et al Finnegan #1	
Casing Type	Surface	Intermediate
Casing Size	339.7 mm	244.5 mm
Weight	81.105 kg/m	64.735 kg/m
Grade	K-55	L-80
Number of Joints	43 (46)	166
Connection Type	Buttress Thread	BTC
Depth of Shoe	570.00 mKB	2276.00 mKB
Casing Hanger and Seal	N/A	N/A

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	339.5	56.3	1901	G	N/A	6.25	570	Visual
	244.5	48.8	1518	Fill Lite	R-3 Cement Retarder; FL-63 Fluid Loss Control	6.25	1594	Visual
		28.7	1901	G	R-3 Cement Retarder; FL-5 Fluid Loss Control	1594	2280	
		3	1400	Fill Lite	R-3 Cement Retarder; FL-63 Fluid Loss Control	2280	2285	

See Appendix G for casing and cement report

3.2.3 Bit Record

See appendix A for detailed bit record and bit performance summary

3.2.4 Lost Circulation

There were no lost circulation problems encountered in this well.

3.2.5 Well Kicks

On September 26th, flow returns were encountered in the Allochthon C formation at a depth of approximately 1220 mkB. As a result, mud weights needed to be increased to 1200 kg/m³ (1250 kg/m³ for trip margin) and the gas needed to be circulated out. A degasser line was eventually connected to the casing bowl which led to the flare stack to burn off the gas. When the annular BOP was shut in, there were no indications of an increase in bottom hole pressure.

3.2.6 Directional Drilling & Survey

The directional work at this well was completed by Baker Hughes using a drift indicator, dip meter and the NaviTrak tool.

Seamus interval	Section TD (mKB)	Inclination & Azimuth	BHA Type
Surface	572	~0.1&0.0	T44
Intermediate	2285	~0.2&202.1	GF128B
Production	3130	~0.5&64.9	MSI816WEBPX

3.2.7 Tool Failures

With bits 19, 20 and 22, at depths of 2285 m, 2855 m, and 3130 m respectively, it was required to trip out of hole and change out the BHA due to no response from the MWD tool. The MWD tool had stopped pulsing.

Also, on October 4th, high pump pressure was observed. Four nozzles were found to be plugged with stator rubble, shale and sand. Total time lost was approximately 6 hour and 15 minutes.

3.2.8 Time Breakdown

See [Appendix B](#) for tables and charts summarizing hourly breakdown.

3.2.9 Coring

See [Appendix S](#) for core sample results.

3.2.10 Fishing

No fishing operations were required during this well.

3.2.11 Formation Integrity / Leak-off Results

Nalcor Energy et al Finnegan Formation Integrity Tests Summary				
FIT Date	TVD (m)	Applied Surface Pressure (kPa)	Mud Weight (kg/m³)	Pressure Gradient (kPa/m)
21-Sep-10	577	11,500	0	29.99
13-Nov-10	2290	21,000	1245	21.4

3.2.12 Drill Stem Test Zones

No drill stem tests were performed during this well.

3.2.13 Cement Plugs

Well Name	Nalcor Energy et al Finnegan #1	
	Cement Plugs	
	#1	#2
Top	2930mKB	2250mKB
Bottom	3030 mKB	2350mKB
Class	G	G
Amount	5.3 m ³	5.7 m ³
Additives	CD-32 Dispersant; R-3 Cement Retarder; A-11 Accelerator	CD-32 Dispersant; R-3 Cement Retarder; A-11 Accelerator
Well Status	Suspended	

3.2.14 Drilling Curve

See [Appendix D](#) for the drilling curves (Depth vs. Days).

3.2.15 Drilling Fluid

Nalcor Energy et al Finnegan #1				
Int #	Fluid Type	Interval Days	BHT Deg C	Max Dens. Kg/m ³
1	Gel/Chem	16	11°C	1140 kg/m ³
	Water/Bentonite/Caustic			
2	KLA-SHIELD	46	46°C	1295 kg/m ³
	Water/Duovis/Kla-Stop/Ultracap			
	PolyPac			
3	KLA-SHIELD(Depleted)	21	62°C	1225 kg/m ³
	Water/Duovis/Kla-Stop/Ultracap			
	PolyPac			

See [Appendix E](#) for mud properties, daily mud check sheets, and dilution curves.

Appendix A – Detailed Bit Record and Bit Performance Summary



Bit Summary

Well Name: NALCOR ET.AL FINNEGAN #1

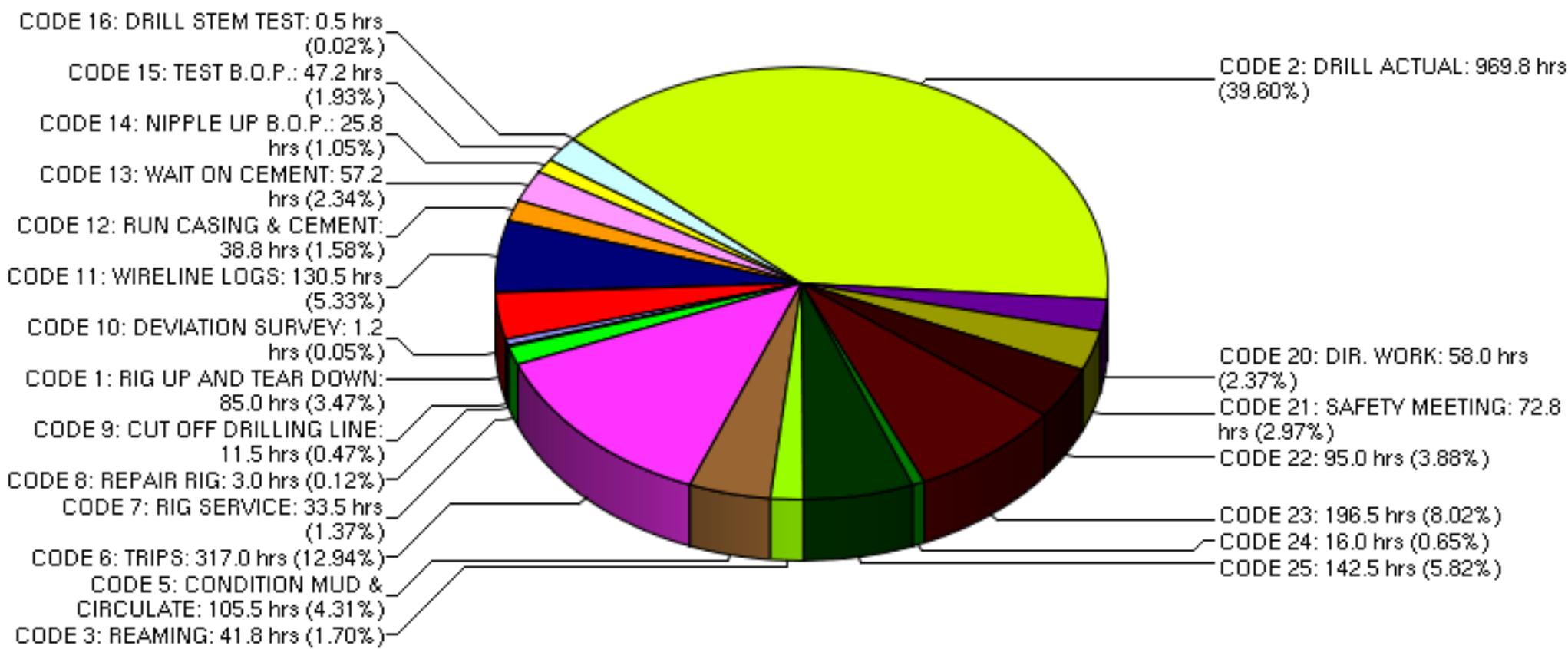
API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	Well Configuration Type VERT	Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)
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Bits																		
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	1	444.5	SMITH	XRTC	PP0749	1-1-5-	2,395		0.00	140.00	140.00	35.75	3.9	8	5	170	65	1-2-WT-G-E-0.00-WT-B...
2	2	444.5	REED	T44	LW5823	4-4-5-	848	17.5/17.5/17.5/12.7	140.00	572.00	440.00	94.25	4.7	28	10	1	1	3-3-BT-M-F-3.00-CI-TD
3	3	311.0	SMITH	MSI616	JD6659	---	361	11.1/11.1/11.1/9.5	572.00	1,113.00	747.00	51.25	14.6	20	6	150	130	1-1-CT-A-X-1.00-FC-PR
4	4	311.0	REED	MSF 716	225675	4-2-2-	333	10.3/10.3/10.3/10.3	1,113.00	1,225.00	110.00	14.25	7.7	18	15	140	140	0-1-CT-H-X-1.00-BT-PR
5	5																	-----
6	5	311.0	REED	MSF 813S	129721	S-4-3-	387	11.1/11.1/11.1/11.1	1,225.00	1,283.00	58.00	20.50	2.8	27	21	140	120	3-4-BT-S-X-1.00-WT-PR
7	6	311.0	SMITH	GF135V0D...	PP3324	5-1-7-	722	15.9/15.9/15.9/12.7	1,290.00	1,341.00	21.00	16.00	1.3	32	18	115	115	3-3-BT-A-7-1.00-WT-PR
8	7	311.0	REED	M4528	CK118	6-3-7-	860	19.1/19.1/19.1	1,341.00	1,406.00	65.00	46.50	1.4	30	27	100	100	1-1-FC-A-E-0.00-FC-PR
9	8	311.0	SMITH	MSI816	JD7643	---			1,407.00	1,471.00	64.00	19.50	3.3	15	15	123	117	1-1-CT-T-X-0.00-CD-PP
10	9	311.0	SMITH	MSI816	JX1725	---	196	7.9/7.9/7.9/7.9	1,471.00	1,494.00	23.00	33.50	0.7	18	15	147	114	2-2-WT-A-XO-1.00-CT-PR
11	10	311.0	REED		220112	---	284	9.5/9.5/9.5/9.5	1,494.00	1,522.00	28.00	30.00	0.9	21	16	148	140	8-8-BT-A-X-0.00-WT-PR
12	11	311.0	SMITH	GF128B	PR1625	5-2-7-	579	14.3/14.3/14.3/11.1	1,522.00	1,600.00	78.00	33.50	2.3	25	13	76	75	2-2-WT-A-E-0.00-ER-FM
13	12	311.0	SMITH	MSI616HE...	JY4796	---	196	7.9/7.9/7.9/7.9	1,600.00	1,664.00	64.00	21.75	2.9	24	18	147	80	2-3-CT-A-X-0.00-LT-PR
14	13	311.0	SMITH	GF123B	PP3524	5-1-7-	579	11.1/14.3/14.3/14.3	1,664.00	1,772.00	108.00	53.75	2.0	30	25	80	65	3-7-BC-2-E-1.00-FC-PR
15	14	311.0	SMITH	GF130B	PP3318	-3-7-	579	11.1/14.3/14.3/14.3	1,772.00	1,817.00	45.00	31.75	1.4	30	25	65	65	1-1-WT-A-E-1.00-ER-PR
16	15	311.0	SMITH	GF123B	PP7440	5-1-7-	515	14.3/14.3/11.1/11.1	1,817.00	1,939.00	122.00	59.00	2.1	25	21	75	72	2-2-WT-H-E-0.00-BT-HR
17	16	311.0	SMITH	MI716	JD1237	---			1,939.00	1,961.00	22.00	15.00	1.5	25	12	128	105	8-8-WT-A-X-0.00-BT-PR
18	17	311.0	SMITH	GF123B	PP3525	5-1-7-	515	11.1/11.1/14.3/14.3	1,961.00	2,086.00	125.00	70.50	1.8	28	10	80	70	2-2-WT-A-E-0.00-NO-HR
19	18	311.0	SMITH	GF15B	PN4571	4-4-7-	575	14.3/14.3/12.7/12.7	2,086.00	2,223.00	137.00	75.75	1.8	26	18	80	70	2-2-WT-A-E-0.00-NO-HR
20	19	311.0	SMITH	GF128B	PP7015	---	911	18.0/18.0/16.0/16.0	2,223.00	2,285.00	62.00	33.50	1.9	25	25	72	72	1-1-WT-A-0-0.00-NO-CP
21	19...	311.0	SMITH	GF128B	PP7015	---	575	12.7/12.7/14.3/14.3										-----
22	20	216.0	SMITH	MSI813W...	JD9193	---	570	8.7/8.7/8.7/8.7	2,285.00	2,855.00	1,103....	114.50	9.6	20	11	202	90	1-2-CT-A-X-0-BT-TF
23	21	216.0	REED	M713-A3D	225678	---	419	8.7/8.7/8.7/8.7	2,855.00	2,989.00	136.00	15.75	8.6	19	18	204	102	-----
24	22	216.0	SMITH	MSI816WE...	JX0276	8-1-6-	284	9.5/9.5/9.5/9.5	2,989.00	3,130.00	141.00	26.00	5.4	18	18	102	102	1-1-BT-A-X-1.00-CC-DTF
25	23	216.0	SECURITY	EQHD42R	11265721	---	284	9.5/9.5/9.5/9.5										0-0-NO-A-0-0.00-NO-LOG
26	23...	216.0	SECURITY	EQHD42R	11265721	---			2,196.00	2,220.00	24.00	3.00	8.0	4	4	50	50	-----

Appendix B – Time Breakdown

Daily Drilling Reports Time Breakdown

Well name:	NALCOR ET. AL FINNEGAN #1	Spud Date:	Sep 09,2010
Operator:	Nalcor Energy - Oil & Gas Inc	Release Date:	Dec 05,2010
Contractor:	Stoneham Drilling Inc.	From Date:	Aug 28,2010
Rig:	Stoneham 11	To Date:	Dec 07,2010



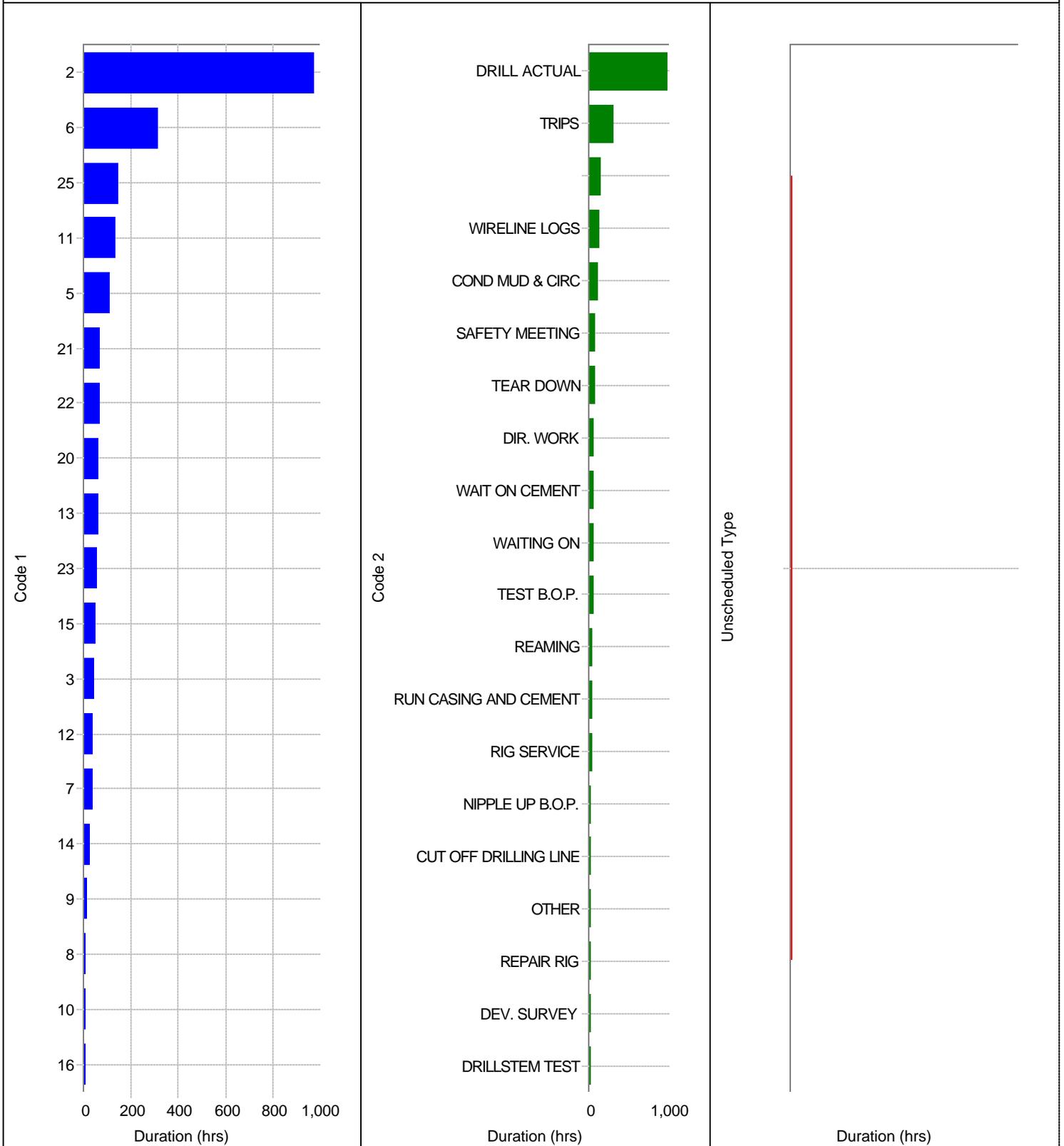
TOTAL HOURS: 2449.0 hrs



Time Log Summary - Graph

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM
Job Category Drilling	Primary Job Type Drilling - original	AFE Number	Start Date 8/28/2010	End Date 12/5/2010	
Objective					



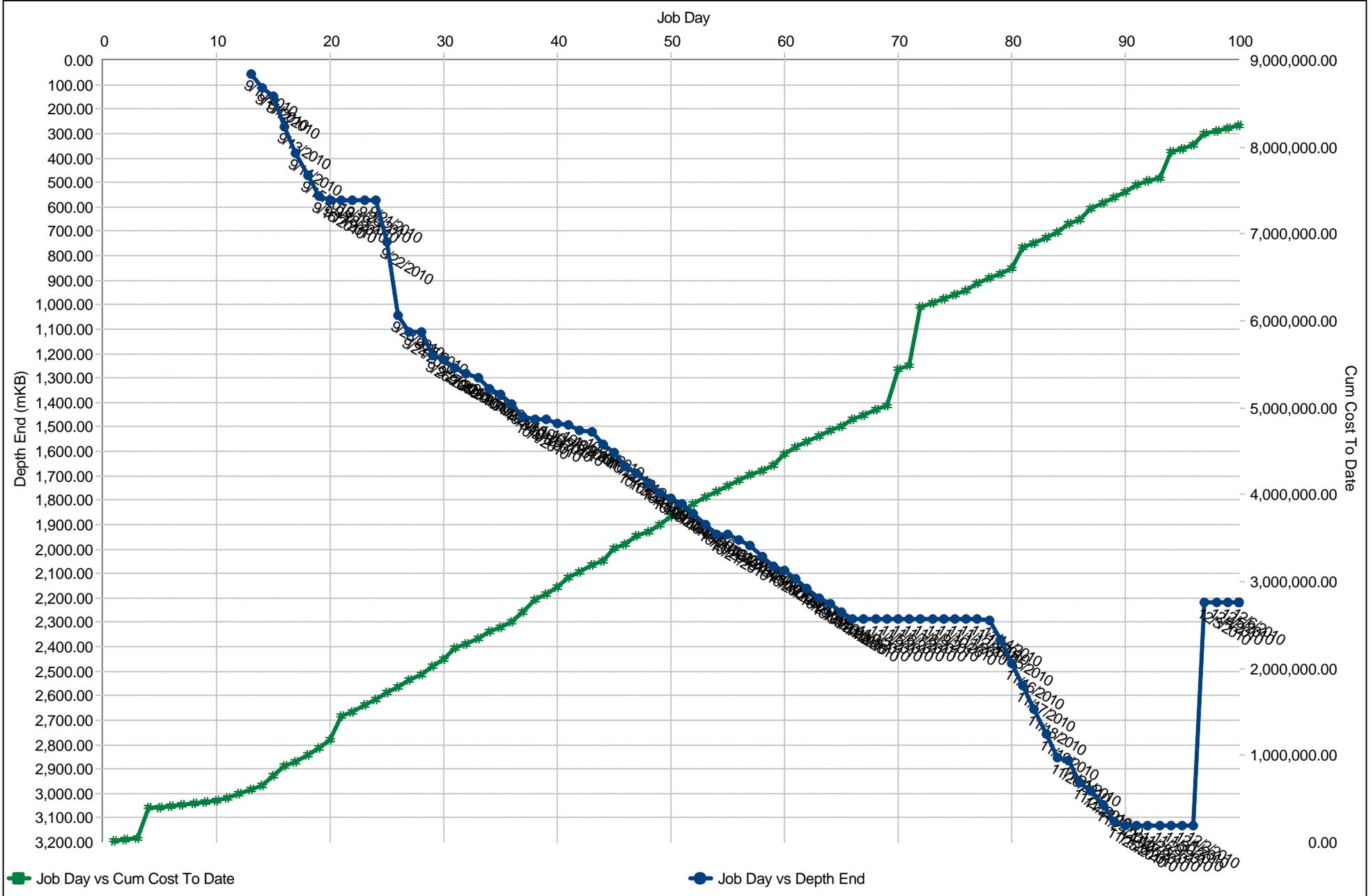
Appendix C – Drilling Curve



Days vs Depth and Cost - Graph

Well Name: NALCOR ET.AL FINNEGAN #1

Job Category Drilling	Primary Job Type Drilling - original	Start Date 8/28/2010	End Date 12/5/2010	AFE Number	Total AFE + Sup Amount	Total Field Estimated Cost 8,253,498.42	Total Depth Drilled (m) 3,863.00
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Appendix D – Drilling Fluid Records



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 12/5/2010, Report # 100.0, DFS: 87.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,220.00	Depth End (mKB) 2,220.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date 419,137.18
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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 FINNEGAN #1

Report Date: 12/4/2010, Report # 99.0, DFS: 86.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,220.00	Depth End (mKB) 2,220.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date 419,137.18
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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 FINNEGAN #1

Report Date: 12/3/2010, Report # 98.0, DFS: 85.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,220.00	Depth End (mKB) 2,220.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date 419,137.18
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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 FINNEGAN #1

Report Date: 12/2/2010, Report # 97.0, DFS: 84.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,196.00	Depth End (mKB) 2,220.00	Depth Progress (m) 24.00	Drilling Hours (hrs) 3.00	Average ROP (m/hr) 8.0	Daily Mud Cost 2,858.00	Mud Additive Cost To Date 419,137.18
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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 (%)
06:30	KLA SHIELD	3,130.00	1250.0	90	32.0	15.500	12.000	13.000	5.4	10.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	12/2/2010		1.0		-32.0	1,950.00	62,400.00
BARITE-MI	SX	22.70	12/2/2010		40.0		-1,955.0	908.00	44,378.50



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 12/1/2010, Report # 96.0, DFS: 83.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 3,216.98	Mud Additive Cost To Date 416,279.18
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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 (%)
08:30	KLA SHIELD	3,130.00	1250.0	93	31.0	15.500	11.000	12.000	5.0	10.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	12/1/2010		1.0		-31.0	1,950.00	60,450.00
CAUSTIC(HAL)	SX		12/1/2010		2.0		-2.0		
LIGNITE	SX	34.00	12/1/2010		8.0		-52.0	272.00	1,768.00
CITRIC ACID	SX	158.68	12/1/2010		2.0		-13.0	317.36	2,062.84
SODIUM BI CARB	SX	27.53	12/1/2010		4.0		-74.0	110.12	2,037.22
BARITE-MI	SX	22.70	12/1/2010		25.0		-1,915.0	567.50	43,470.50



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/30/2010, Report # 95.0, DFS: 82.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 2,273.86	Mud Additive Cost To Date 413,062.20
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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 (%)
08:30	KLA SHIELD	3,130.00	1250.0	115	25.0	17.500	11.000	14.000	4.9	10.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CITRIC ACID	SX	158.68	11/30/2010		1.0		-11.0	158.68	1,745.48
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/30/2010		1.0		-30.0	1,950.00	58,500.00
SODIUM BI CARB	SX	27.53	11/30/2010		6.0		-70.0	165.18	1,927.10



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/29/2010, Report # 94.0, DFS: 81.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date 410,788.34
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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	KLA SHIELD	3,130.00	1250.0	115	25.0	17.500	11.000	14.000	4.9	10.0	10.0

Mud Additive Amounts

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



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/28/2010, Report # 93.0, DFS: 80.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date 410,788.34
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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	KLA SHIELD	3,130.00	1250.0	115	25.0	17.500	11.000	14.000	4.9	10.0	10.0

Mud Additive Amounts

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



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/27/2010, Report # 92.0, DFS: 79.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 6,434.53	Mud Additive Cost To Date 410,788.34
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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 (%)
15:30	KLA SHIELD	3,030.00	1245.0	82	25.0	15.500	10.000	17.000	5.7	10.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/27/2010		1.0		-29.0	1,950.00	56,550.00
DUO VIS	SX	99.09	11/27/2010		7.0		-78.0	693.63	7,729.02
BARITE-MI	SX	22.70	11/27/2010		167.0		-1,890.0	3,790.90	42,903.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/26/2010, Report # 91.0, DFS: 78.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 8,649.10	Mud Additive Cost To Date 404,353.81
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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	KLA SHIELD	2,276.00	1235.0	73	25.0	11.500	6.000	15.000		10.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/26/2010		1.0		-28.0	1,950.00	54,600.00
DEFOAM X	SX	390.26	11/26/2010		2.0		-11.0	780.52	4,292.86
DUO VIS	SX	99.09	11/26/2010		2.0		-71.0	198.18	7,035.39
BARITE-MI	SX	22.70	11/26/2010		252.0		-1,723.0	5,720.40	39,112.10



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/25/2010, Report # 90.0, DFS: 77.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 3,113.00	Depth End (mKB) 3,130.00	Depth Progress (m) 17.00	Drilling Hours (hrs) 6.25	Average ROP (m/hr) 2.7	Daily Mud Cost 3,957.77	Mud Additive Cost To Date 395,704.71
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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 (%)
14:00	KLA SHIELD	3,130.00	1210.0	61	24.0	9.000	5.000	15.000	6.6	10.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/25/2010		1.0		-27.0	1,950.00	52,650.00
Defoam X	PAILS	390.26	11/25/2010		3.0		-47.0	1,170.78	18,342.22
DUO VIS	SX	99.09	11/25/2010		3.0		-69.0	297.27	6,837.21
POLY PAC UL	SX	134.93	11/25/2010		4.0		-28.0	539.72	3,778.04



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/24/2010, Report # 89.0, DFS: 76.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 3,045.00	Depth End (mKB) 3,113.00	Depth Progress (m) 68.00	Drilling Hours (hrs) 9.75	Average ROP (m/hr) 7.0	Daily Mud Cost 3,255.71	Mud Additive Cost To Date 391,746.94
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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 (%)
14:00	KLA SHIELD	3,087.00	1210.0	63	24.0	9.000	6.000	16.000	6.5	10.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
POLY PAC UL	SX	134.93	11/24/2010		1.0		-24.0	134.93	3,238.32
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/24/2010		1.0		-26.0	1,950.00	50,700.00
DEFOAM X	SX	390.26	11/24/2010		3.0		-9.0	1,170.78	3,512.34



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/23/2010, Report # 88.0, DFS: 75.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,989.00	Depth End (mKB) 3,045.00	Depth Progress (m) 56.00	Drilling Hours (hrs) 10.00	Average ROP (m/hr) 5.6	Daily Mud Cost 2,148.18	Mud Additive Cost To Date 388,491.23
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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 (%)
14:00	KLA SHIELD	3,013.00	1215.0	63	23.0	8.000	5.000	16.000	6.5	10.5	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/23/2010		1.0		-25.0	1,950.00	48,750.00
DUO VIS	SX	99.09	11/23/2010		2.0		-66.0	198.18	6,539.94



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/22/2010, Report # 87.0, DFS: 74.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,956.00	Depth End (mKB) 2,989.00	Depth Progress (m) 35.00	Drilling Hours (hrs) 2.50	Average ROP (m/hr) 14.0	Daily Mud Cost 3,293.66	Mud Additive Cost To Date 386,343.05
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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 (%)
13:30	KLAS SHIELD	2,989.00	1210.0	66	24.0	9.000	5.000	16.000	6.4	10.5	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	11/22/2010		1.0		-44.0	390.26	17,171.44
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/22/2010		1.0		-24.0	1,950.00	46,800.00
BARITE-MI	SX	22.70	11/22/2010		42.0		-1,471.0	953.40	33,391.70



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/21/2010, Report # 86.0, DFS: 73.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,865.00	Depth End (mKB) 2,956.00	Depth Progress (m) 91.00	Drilling Hours (hrs) 11.00	Average ROP (m/hr) 8.3	Daily Mud Cost 3,173.26	Mud Additive Cost To Date 383,049.39
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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 (%)
14:30	Kla Sheild	2,925.00	1210.0	66	24.0	8.000	4.000	15.000	5.9	10.5	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/21/2010		1.0		-23.0	1,950.00	44,850.00
POLY PAC UL	SX	134.93	11/21/2010		2.0		-23.0	269.86	3,103.39
BARITE-MI	SX	22.70	11/21/2010		42.0		-1,429.0	953.40	32,438.30



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/20/2010, Report # 85.0, DFS: 72.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,855.00	Depth End (mKB) 2,865.00	Depth Progress (m) 10.00	Drilling Hours (hrs) 2.25	Average ROP (m/hr) 4.4	Daily Mud Cost 5,105.90	Mud Additive Cost To Date 379,876.13
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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 (%)
14:30	KLA SHIELD	2,855.00	1210.0	79	24.0	8.500	4.000	16.000	5.8	10.5	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/20/2010		1.0		-22.0	1,950.00	42,900.00
SODA ASH	SX	29.57	11/20/2010		10.0		-41.0	295.70	1,212.37
BARITE-MI	SX	22.70	11/20/2010		126.0		-1,387.0	2,860.20	31,484.90



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/19/2010, Report # 84.0, DFS: 71.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,758.00	Depth End (mKB) 2,855.00	Depth Progress (m) 630.00	Drilling Hours (hrs) 20.00	Average ROP (m/hr) 31.5	Daily Mud Cost 3,468.96	Mud Additive Cost To Date 374,770.23
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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 (%)
14:30	KLA SHIELD	2,827.00	1210.0	65	25.0	8.000	4.000	16.000	6.2	10.5	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
POLY PAC UL	SX	134.93	11/19/2010		2.0		-21.0	269.86	2,833.53
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/19/2010		1.0		-21.0	1,950.00	40,950.00
SODA ASH	SX	29.57	11/19/2010		10.0		-31.0	295.70	916.67
BARITE-MI	SX	22.70	11/19/2010		42.0		-1,261.0	953.40	28,624.70



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/18/2010, Report # 83.0, DFS: 70.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,653.00	Depth End (mKB) 2,758.00	Depth Progress (m) 105.00	Drilling Hours (hrs) 9.75	Average ROP (m/hr) 10.8	Daily Mud Cost 2,911.92	Mud Additive Cost To Date 371,301.27
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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	KLA SHIELD	2,722.00	1210.0	64	24.0	7.500	4.000	15.000	6.3	10.5	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/18/2010		1.0		-20.0	1,950.00	39,000.00
POLY PAC UL	SX	134.93	11/18/2010		2.0		-19.0	269.86	2,563.67
DUO VIS	SX	99.09	11/18/2010		4.0		-64.0	396.36	6,341.76
SODA ASH	SX	29.57	11/18/2010		10.0		-21.0	295.70	620.97



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/17/2010, Report # 82.0, DFS: 69.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,559.00	Depth End (mKB) 2,653.00	Depth Progress (m) 94.00	Drilling Hours (hrs) 21.50	Average ROP (m/hr) 4.4	Daily Mud Cost 3,000.38	Mud Additive Cost To Date 368,389.35
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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		2,608.00	1220.0	63	25.0	7.500	5.000	17.000	5.7	10.5	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	11/17/2010		1.0		-42.0	390.26	16,390.92
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/17/2010		1.0		-19.0	1,950.00	37,050.00
POLY PAC UL	SX	134.93	11/17/2010		2.0		-17.0	269.86	2,293.81
Defoam X	PAILS	390.26	11/17/2010		1.0		-43.0	390.26	16,781.18



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/16/2010, Report # 81.0, DFS: 68.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,469.00	Depth End (mKB) 2,559.00	Depth Progress (m) 90.00	Drilling Hours (hrs) 22.00	Average ROP (m/hr) 4.1	Daily Mud Cost 175,217.35	Mud Additive Cost To Date 365,388.97
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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	Polymer	2,525.00	1225.0	62	23.0	7.500	5.000	15.000	5.9	10.5	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	11/16/2010		1.0		-41.0	390.26	16,000.66
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/16/2010		1.0		-18.0	1,950.00	35,100.00
POLY PAC UL	SX	134.93	11/16/2010		3.0		-15.0	404.79	2,023.95
COST ADJUSTMENT	DAY	172,472.30	11/16/2010		1.0		-1.0	172,472.30	172,472.30



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/15/2010, Report # 80.0, DFS: 67.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,371.00	Depth End (mKB) 2,469.00	Depth Progress (m) 98.00	Drilling Hours (hrs) 20.75	Average ROP (m/hr) 4.7	Daily Mud Cost 3,120.78	Mud Additive Cost To Date 190,171.62
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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	Polymer	2,419.00	1225.0	63	24.0	7.500	5.000	15.000	6.3	11.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/15/2010		1.0		-17.0	1,950.00	33,150.00
DEFOAM X	SX	390.26	11/15/2010		3.0		-6.0	1,170.78	2,341.56



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/14/2010, Report # 79.0, DFS: 66.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,291.00	Depth End (mKB) 2,371.00	Depth Progress (m) 80.00	Drilling Hours (hrs) 18.00	Average ROP (m/hr) 4.4	Daily Mud Cost 614.63	Mud Additive Cost To Date 187,050.84
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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	Polymer	2,344.00	1225.0	55	23.0	7.500	5.000	15.000	5.7	10.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CITRIC ACID	SX	158.68	11/14/2010		2.0		-10.0	317.36	1,586.80
DUO VIS	SX	99.09	11/14/2010		3.0		-60.0	297.27	5,945.40



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/13/2010, Report # 78.0, DFS: 65.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,291.00	Depth Progress (m) 6.00	Drilling Hours (hrs) 2.50	Average ROP (m/hr) 2.4	Daily Mud Cost 3,556.30	Mud Additive Cost To Date 186,436.21
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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
CITRIC ACID	SX	158.68	11/13/2010		1.0		-2.0	158.68	317.36
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/13/2010		1.0		-16.0	1,950.00	31,200.00
SODIUM BI CARB	SX	27.53	11/13/2010		4.0		-50.0	110.12	1,376.50
CITRIC ACID	SX	158.68	11/13/2010		6.0		-8.0	952.08	1,269.44
SODIUM BI CARB	SX	27.53	11/13/2010		14.0		-64.0	385.42	1,761.92



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/12/2010, Report # 77.0, DFS: 64.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,950.00	Mud Additive Cost To Date 182,879.91
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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
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/12/2010		1.0		-15.0	1,950.00	29,250.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/11/2010, Report # 76.0, DFS: 63.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 2,219.86	Mud Additive Cost To Date 180,929.91
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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
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/11/2010		1.0		-14.0	1,950.00	27,300.00
POLY PAC UL	SX	134.93	11/11/2010		2.0		-12.0	269.86	1,619.16



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/10/2010, Report # 75.0, DFS: 62.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,950.00	Mud Additive Cost To Date 178,710.05
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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	Polymer	2,285.00	1235.0	67	22.0	9.500	5.000	12.000		9.5	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/10/2010		1.0		-13.0	1,950.00	25,350.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/9/2010, Report # 74.0, DFS: 61.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 2,416.98	Mud Additive Cost To Date 176,760.05
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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
CITRIC ACID	SX	158.68	11/9/2010		1.0		-1.0	158.68	158.68
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/9/2010		1.0		-12.0	1,950.00	23,400.00
SODIUM BI CARB	SX	27.53	11/9/2010		4.0		-46.0	110.12	1,266.38
DUO VIS	SX	99.09	11/9/2010		2.0		-57.0	198.18	5,648.13



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/8/2010, Report # 73.0, DFS: 60.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,950.00	Mud Additive Cost To Date 174,343.07
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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	Polymer	2,285.00	1320.0	80	24.0	6.000	5.000	12.000		10.5	11.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/8/2010		1.0		-11.0	1,950.00	21,450.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/7/2010, Report # 72.0, DFS: 59.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 7,160.24	Mud Additive Cost To Date 172,393.07
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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
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/7/2010		1.0		-10.0	1,950.00	19,500.00
ULTRA CAP	SX	233.72	11/7/2010		7.0		-132.0	1,636.04	30,851.04
LIGNITE	SX	34.00	11/7/2010		21.0		-44.0	714.00	1,496.00
BARITE-MI	SX	22.70	11/7/2010		126.0		-1,219.0	2,860.20	27,671.30



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/6/2010, Report # 71.0, DFS: 58.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 7,868.58	Mud Additive Cost To Date 165,232.83
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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	Polymer	2,285.00	1290.0	88	32.0	14.000	6.000	12.000	5.6	9.0	11.3

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/6/2010		1.0		-9.0	1,950.00	17,550.00
DUO VIS	SX	99.09	11/6/2010		2.0		-55.0	198.18	5,449.95
BARITE-MI	SX	22.70	11/6/2010		252.0		-1,093.0	5,720.40	24,811.10



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/5/2010, Report # 70.0, DFS: 57.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,950.00	Mud Additive Cost To Date 157,364.25
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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	Polymer	2,285.00	1290.0	130						9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/5/2010		1.0		-8.0	1,950.00	15,600.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/4/2010, Report # 69.0, DFS: 56.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,950.00	Mud Additive Cost To Date 155,414.25
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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	Polymer	2,285.00	1290.0	130	32.0	13.000				9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/4/2010		1.0		-7.0	1,950.00	13,650.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/3/2010, Report # 68.0, DFS: 55.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,950.00	Mud Additive Cost To Date 153,464.25
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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	Polymer	2,285.00	1290.0	80						9.0	

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/3/2010		1.0		-6.0	1,950.00	11,700.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/2/2010, Report # 67.0, DFS: 54.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 5,763.60	Mud Additive Cost To Date 151,514.25
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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	Polymer	2,285.00	1290.0	83	32.0	13.000	6.000	12.000	5.6	9.0	11.3

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE-MI	SX	22.70	11/2/2010		168.0		-841.0	3,813.60	19,090.70
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/2/2010		1.0		-5.0	1,950.00	9,750.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 11/1/2010, Report # 66.0, DFS: 53.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,256.00	Depth End (mKB) 2,285.00	Depth Progress (m) 29.00	Drilling Hours (hrs) 17.75	Average ROP (m/hr) 1.6	Daily Mud Cost 6,891.16	Mud Additive Cost To Date 145,750.65
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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	Polymer	1,270.00	1270.0	78	32.0	13.000	6.000	11.000	5.6	9.0	10.3

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	11/1/2010		1.0		-40.0	390.26	15,610.40
POLY PAC R	SX	134.93	11/1/2010		2.0		-22.0	269.86	2,968.46
ULTRA CAP	SX	233.72	11/1/2010		2.0		-125.0	467.44	29,215.00
ENGINEERING / EQUIPMENT	DAY	1,950.00	11/1/2010		1.0		-4.0	1,950.00	7,800.00
BARITE-MI	SX	22.70	11/1/2010		168.0		-673.0	3,813.60	15,277.10



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/31/2010, Report # 65.0, DFS: 52.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,223.00	Depth End (mKB) 2,256.00	Depth Progress (m) 33.00	Drilling Hours (hrs) 15.75	Average ROP (m/hr) 2.1	Daily Mud Cost 6,190.87	Mud Additive Cost To Date 138,859.49
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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	Polymer	2,238.00	1255.0	80	30.0	12.000	6.000	11.000	6.2	9.0	10.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
KLA STOP	BBL	1,233.57	10/31/2010		1.0		-36.0	1,233.57	44,408.52
ENGINEERING / EQUIPMENT	DAY	1,950.00	10/31/2010		1.0		-3.0	1,950.00	5,850.00
POLY PAC UL	SX	134.93	10/31/2010		2.0		-10.0	269.86	1,349.30
ULTRA CAP	SX	233.72	10/31/2010		2.0		-123.0	467.44	28,747.56
BARITE-MI	SX	22.70	10/31/2010		100.0		-505.0	2,270.00	11,463.50



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/30/2010, Report # 64.0, DFS: 51.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,203.00	Depth End (mKB) 2,223.00	Depth Progress (m) 20.00	Drilling Hours (hrs) 14.75	Average ROP (m/hr) 1.4	Daily Mud Cost 6,441.34	Mud Additive Cost To Date 132,668.62
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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 (%)
14:30	KLA SHIELD	2,223.00	1250.0	76	30.0	12.000	6.000	11.000	8.0	9.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/30/2010		1.0		-39.0	390.26	15,220.14
POLY PAC UL	SX	134.93	10/30/2010		2.0		-8.0	269.86	1,079.44
ULTRA CAP	SX	233.72	10/30/2010		2.0		-120.0	467.44	28,046.40
BARITE-MI	SX	22.70	10/30/2010		42.0		-321.0	953.40	7,286.70
ULTRA CAP	SX	233.72	10/30/2010		1.0		-121.0	233.72	28,280.12
ENGINEERING / EQUIPMENT	DAY	1,950.00	10/30/2010		1.0		-2.0	1,950.00	3,900.00
POLY PAC R	SX	134.93	10/30/2010		2.0		-20.0	269.86	2,698.60
BARITE-MI	SX	22.70	10/30/2010		84.0		-405.0	1,906.80	9,193.50



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/29/2010, Report # 63.0, DFS: 50.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,163.00	Depth End (mKB) 2,203.00	Depth Progress (m) 40.00	Drilling Hours (hrs) 21.50	Average ROP (m/hr) 1.9	Daily Mud Cost 2,197.00	Mud Additive Cost To Date 126,227.28
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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 (%)
16:30	KLA SHIELD	2,191.00	1250.0	76	32.0	11.000	6.000	11.000	8.0	9.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE-HALLIBURTON	SX	0.00	10/29/2010		115.0		-1,759.0	0.00	0.00
Defoam X	PAILS	390.26	10/29/2010		1.0		-38.0	390.26	14,829.88
ULTRA CAP	SX	233.72	10/29/2010		2.0		-118.0	467.44	27,578.96
BARITE-HALLIBURTON	SX	0.00	10/29/2010		13.0		-1,772.0	0.00	0.00
BARITE-MI	SX	22.70	10/29/2010		59.0		-279.0	1,339.30	6,333.30



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/28/2010, Report # 62.0, DFS: 49.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,124.00	Depth End (mKB) 2,163.00	Depth Progress (m) 39.00	Drilling Hours (hrs) 20.75	Average ROP (m/hr) 1.9	Daily Mud Cost 3,573.83	Mud Additive Cost To Date 124,030.28
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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 (%)
16:30	KLA SHIELD	2,152.00	1250.0	72	32.0	11.000	6.000	11.000	8.0	9.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ENGINEERING / EQUIPMENT	DAY	1,950.00	10/28/2010		1.0		-1.0	1,950.00	1,950.00
BARITE-HALLIBURTON	SX	0.00	10/28/2010		84.0		-1,524.0	0.00	0.00
Defoam X	PAILS	390.26	10/28/2010		1.0		-37.0	390.26	14,439.62
KLA STOP	BBL	1,233.57	10/28/2010		1.0		-35.0	1,233.57	43,174.95
BARITE-HALLIBURTON	SX	0.00	10/28/2010		120.0		-1,644.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/27/2010, Report # 61.0, DFS: 48.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,086.00	Depth End (mKB) 2,124.00	Depth Progress (m) 38.00	Drilling Hours (hrs) 18.75	Average ROP (m/hr) 2.0	Daily Mud Cost 819.12	Mud Additive Cost To Date 120,456.45
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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 (%)
16:00	KLA SHIELD	2,109.00	1250.0	76	30.0	13.000	6.000	11.000	8.0	9.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/27/2010		2.0		-36.0	780.52	14,049.36
GEL	SX	19.30	10/27/2010		2.0		-439.0	38.60	8,472.70



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/26/2010, Report # 60.0, DFS: 47.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,069.00	Depth End (mKB) 2,086.00	Depth Progress (m) 17.00	Drilling Hours (hrs) 8.50	Average ROP (m/hr) 2.0	Daily Mud Cost	Mud Additive Cost To Date 119,637.33
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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 (%)
16:00	KLA SHIELD	2,080.00	1250.0	74	30.0	13.000	6.000	11.000	8.0	9.0	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE-HALLIBURTON	SX	0.00	10/26/2010		60.0		-1,356.0	0.00	0.00
BARITE-HALLIBURTON	SX	0.00	10/26/2010		84.0		-1,440.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/25/2010, Report # 59.0, DFS: 46.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 2,031.00	Depth End (mKB) 2,069.00	Depth Progress (m) 38.00	Drilling Hours (hrs) 22.50	Average ROP (m/hr) 1.7	Daily Mud Cost 1,369.57	Mud Additive Cost To Date 119,637.33
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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 (%)
16:00	KLA SHIELD	2,060.00	1250.0	78	34.0	14.000	6.000	11.000	8.0	9.0	9.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
KLA STOP	BBL	1,233.57	10/25/2010		1.0		-34.0	1,233.57	41,941.38
LIGNITE	SX	34.00	10/25/2010		4.0		-23.0	136.00	782.00
BARITE-HALLIBURTON	SX	0.00	10/25/2010		126.0		-1,296.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/24/2010, Report # 58.0, DFS: 45.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,988.00	Depth End (mKB) 2,031.00	Depth Progress (m) 43.00	Drilling Hours (hrs) 23.00	Average ROP (m/hr) 1.9	Daily Mud Cost 1,880.54	Mud Additive Cost To Date 118,267.76
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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 (%)
16:00	KLA SHIELD	2,016.00	1245.0	80	32.0	14.000	6.000	11.000	8.0	9.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/24/2010		1.0		-34.0	390.26	13,268.84
POLYPLUS RD	SX	156.11	10/24/2010		1.0		-1.0	156.11	156.11
SODA ASH	SX	29.57	10/24/2010		1.0		-11.0	29.57	325.27
LIGNITE	SX	34.00	10/24/2010		4.0		-19.0	136.00	646.00
ULTRA CAP	SX	233.72	10/24/2010		5.0		-116.0	1,168.60	27,111.52



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/23/2010, Report # 57.0, DFS: 44.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,961.00	Depth End (mKB) 1,988.00	Depth Progress (m) 27.00	Drilling Hours (hrs) 16.50	Average ROP (m/hr) 1.6	Daily Mud Cost 2,014.09	Mud Additive Cost To Date 116,387.22
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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 (%)
16:00	KLA SHIELD	1,975.00	1250.0	74	30.0	13.000	5.000	9.000	8.0	9.0	9.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE-HALLIBURTON	SX	0.00	10/23/2010		42.0		-1,170.0	0.00	0.00
KLA STOP	BBL	1,233.57	10/23/2010		1.0		-33.0	1,233.57	40,707.81
Defoam X	PAISL	390.26	10/23/2010		2.0		-33.0	780.52	12,878.58



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/22/2010, Report # 56.0, DFS: 43.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,942.00	Depth End (mKB) 1,961.00	Depth Progress (m) 19.00	Drilling Hours (hrs) 14.25	Average ROP (m/hr) 1.3	Daily Mud Cost 1,170.78	Mud Additive Cost To Date 114,373.13
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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 (%)
16:00	KLA SHIELD	1,958.00	1250.0	78	34.0	14.000	5.000	9.000	8.0	9.0	9.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/22/2010		1.0		-29.0	390.26	11,317.54
Defoam X	PAILS	390.26	10/22/2010		2.0		-31.0	780.52	12,098.06



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/21/2010, Report # 55.0, DFS: 42.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,939.00	Depth End (mKB) 1,942.00	Depth Progress (m) 3.00	Drilling Hours (hrs) 0.75	Average ROP (m/hr) 4.0	Daily Mud Cost 934.88	Mud Additive Cost To Date 113,202.35
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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	KLA SHIELD	1,939.00	1255.0	120	34.0	13.000	5.000	8.000	8.0	9.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ULTRA CAP	SX	233.72	10/21/2010		4.0		-111.0	934.88	25,942.92
BARITE-HALLIBURTON	SX	0.00	10/21/2010		42.0		-1,128.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/20/2010, Report # 54.0, DFS: 41.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,899.00	Depth End (mKB) 1,939.00	Depth Progress (m) 40.00	Drilling Hours (hrs) 20.75	Average ROP (m/hr) 1.9	Daily Mud Cost 2,212.27	Mud Additive Cost To Date 112,267.47
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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
DUO VIS	SX	99.09	10/20/2010		1.0		-52.0	99.09	5,152.68
KLA STOP	BBL	1,233.57	10/20/2010		1.0		-32.0	1,233.57	39,474.24
DUO VIS	SX	99.09	10/20/2010		1.0		-53.0	99.09	5,251.77
DEFOAM X	SX	390.26	10/20/2010		2.0		-3.0	780.52	1,170.78
BARITE-HALLIBURTON	SX	0.00	10/20/2010		84.0		-1,086.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/19/2010, Report # 53.0, DFS: 40.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,853.00	Depth End (mKB) 1,899.00	Depth Progress (m) 46.00	Drilling Hours (hrs) 22.00	Average ROP (m/hr) 2.1	Daily Mud Cost 1,687.52	Mud Additive Cost To Date 110,055.20
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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 (%)
16:15	KLA SHIELD	1,886.00	1245.0	71	30.0	10.000	5.000	7.000	8.0	9.0	9.3

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
SODA ASH	SX	29.57	10/19/2010		1.0		-10.0	29.57	295.70
ULTRA CAP	SX	233.72	10/19/2010		5.0		-107.0	1,168.60	25,008.04
Defoam X	PAILS	390.26	10/19/2010		1.0		-28.0	390.26	10,927.28
DUO VIS	SX	99.09	10/19/2010		1.0		-51.0	99.09	5,053.59
BARITE-HALLIBURTON	SX	0.00	10/19/2010		170.0		-1,002.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/18/2010, Report # 52.0, DFS: 39.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,817.00	Depth End (mKB) 1,853.00	Depth Progress (m) 36.00	Drilling Hours (hrs) 16.25	Average ROP (m/hr) 2.2	Daily Mud Cost 1,623.83	Mud Additive Cost To Date 108,367.68
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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 (%)
16:00	KLA SHIELD	1,842.00	1245.0	80	30.0	13.000	5.000	9.000	8.0	9.0	9.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/18/2010		1.0		-27.0	390.26	10,537.02
KLA STOP	BBL	1,233.57	10/18/2010		1.0		-31.0	1,233.57	38,240.67
BARITE-HALLIBURTON	SX	0.00	10/18/2010		42.0		-832.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/17/2010, Report # 51.0, DFS: 38.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,793.00	Depth End (mKB) 1,817.00	Depth Progress (m) 24.00	Drilling Hours (hrs) 17.25	Average ROP (m/hr) 1.4	Daily Mud Cost 780.52	Mud Additive Cost To Date 106,743.85
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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 (%)
16:30	KLA SHIELD	1,816.00	1250.0	77	34.0	13.000	5.500	9.000	8.0	9.0	9.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/17/2010		1.0		-25.0	390.26	9,756.50
BARITE-HALLIBURTON	SX	0.00	10/17/2010		42.0		-706.0	0.00	0.00
Defoam X	PAILS	390.26	10/17/2010		1.0		-26.0	390.26	10,146.76
BARITE-HALLIBURTON	SX	0.00	10/17/2010		84.0		-790.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/16/2010, Report # 50.0, DFS: 37.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,772.00	Depth End (mKB) 1,793.00	Depth Progress (m) 21.00	Drilling Hours (hrs) 14.50	Average ROP (m/hr) 1.4	Daily Mud Cost 2,577.23	Mud Additive Cost To Date 105,963.33
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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 (%)
15:45	KLA SHIELD	1,782.00	1250.0	79	32.0	13.000	5.000	7.000	8.0	9.1	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE-MI	SX	22.70	10/16/2010		42.0		-220.0	953.40	4,994.00
Defoam X	PAILS	390.26	10/16/2010		1.0		-24.0	390.26	9,366.24
KLA STOP	BBL	1,233.57	10/16/2010		1.0		-30.0	1,233.57	37,007.10



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/15/2010, Report # 49.0, DFS: 36.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,733.00	Depth End (mKB) 1,772.00	Depth Progress (m) 39.00	Drilling Hours (hrs) 20.50	Average ROP (m/hr) 1.9	Daily Mud Cost 1,978.69	Mud Additive Cost To Date 103,386.10
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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 (%)
16:00	KLA SHIELD	1,764.00	1250.0	78	36.0	13.000	5.500	9.000	8.0	9.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/15/2010		1.0		-22.0	390.26	8,585.72
SODA ASH	SX	29.57	10/15/2010		1.0		-9.0	29.57	266.13
ULTRA CAP	SX	233.72	10/15/2010		5.0		-102.0	1,168.60	23,839.44
Defoam X	PAILS	390.26	10/15/2010		1.0		-23.0	390.26	8,975.98
BARITE-HALLIBURTON	SX	0.00	10/15/2010		42.0		-664.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/14/2010, Report # 48.0, DFS: 35.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,689.00	Depth End (mKB) 1,733.00	Depth Progress (m) 44.00	Drilling Hours (hrs) 22.25	Average ROP (m/hr) 2.0	Daily Mud Cost 2,967.49	Mud Additive Cost To Date 101,407.41
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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 (%)
16:15	KLA SHIELD	1,719.00	1250.0	75	32.0	12.000	5.000	7.000	8.0	9.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/14/2010		1.0		-20.0	390.26	7,805.20
BARITE-HALLIBURTON	SX	0.00	10/14/2010		42.0		-622.0	0.00	0.00
Defoam X	PAILS	390.26	10/14/2010		1.0		-21.0	390.26	8,195.46
KLA STOP	BBL	1,233.57	10/14/2010		1.0		-29.0	1,233.57	35,773.53
BARITE-MI	SX	22.70	10/14/2010		42.0		-178.0	953.40	4,040.60



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/13/2010, Report # 47.0, DFS: 34.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,664.00	Depth End (mKB) 1,689.00	Depth Progress (m) 25.00	Drilling Hours (hrs) 11.00	Average ROP (m/hr) 2.3	Daily Mud Cost 390.26	Mud Additive Cost To Date 98,439.92
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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 (%)
16:00	KLA SHIELD	1,664.00	1250.0	78	35.0	13.000	5.500	8.500	8.0	9.1	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/13/2010		1.0		-19.0	390.26	7,414.94



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/12/2010, Report # 46.0, DFS: 33.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,607.00	Depth End (mKB) 1,664.00	Depth Progress (m) 57.00	Drilling Hours (hrs) 20.75	Average ROP (m/hr) 2.7	Daily Mud Cost 1,588.43	Mud Additive Cost To Date 98,049.66
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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 (%)
16:00	KLA SHIELD	1,657.00	1250.0	79	35.0	13.000	6.000	9.000	8.0	9.2	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/12/2010		1.0		-18.0	390.26	7,024.68
KLA STOP	PAILS		10/12/2010		1.0		-1.0		
SODA ASH	SX	29.57	10/12/2010		1.0		-8.0	29.57	236.56
ULTRA CAP	SX	233.72	10/12/2010		5.0		-97.0	1,168.60	22,670.84
BARITE-HALLIBURTON	SX	0.00	10/12/2010		35.0		-580.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/11/2010, Report # 45.0, DFS: 32.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,571.00	Depth End (mKB) 1,607.00	Depth Progress (m) 36.00	Drilling Hours (hrs) 11.50	Average ROP (m/hr) 3.1	Daily Mud Cost 3,439.26	Mud Additive Cost To Date 96,461.23
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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 (%)
16:00	KLA SHIELD	1,600.00	1250.0	73	33.0	13.000	5.000	8.000	8.0	9.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/11/2010		1.0		-16.0	390.26	6,244.16
KLA STOP	BBL	1,233.57	10/11/2010		1.0		-28.0	1,233.57	34,539.96
SODA ASH	SX	29.57	10/11/2010		1.0		-7.0	29.57	206.99
ULTRA CAP	SX	233.72	10/11/2010		5.0		-92.0	1,168.60	21,502.24
Defoam X	PAILS	390.26	10/11/2010		1.0		-17.0	390.26	6,634.42
BARITE-MI	SX	22.70	10/11/2010		10.0		-136.0	227.00	3,087.20
BARITE-HALLIBURTON	SX	0.00	10/11/2010		32.0		-545.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/10/2010, Report # 44.0, DFS: 31.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,522.00	Depth End (mKB) 1,571.00	Depth Progress (m) 49.00	Drilling Hours (hrs) 23.00	Average ROP (m/hr) 2.1	Daily Mud Cost 1,662.24	Mud Additive Cost To Date 93,021.97
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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 (%)
16:00	KLA SHIELD	1,550.00	1250.0	78	34.0	13.500	5.500	9.000	8.0	9.0	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/10/2010		1.0		-15.0	390.26	5,853.90
KLA STOP	BBL	1,233.57	10/10/2010		1.0		-27.0	1,233.57	33,306.39
CAUSTIC	SX	38.41	10/10/2010		1.0		39.0	38.41	806.61



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/9/2010, Report # 43.0, DFS: 30.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,515.00	Depth End (mKB) 1,522.00	Depth Progress (m) 7.00	Drilling Hours (hrs) 11.25	Average ROP (m/hr) 0.6	Daily Mud Cost 1,233.57	Mud Additive Cost To Date 91,359.73
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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 (%)
14:00	KLA SHIELD	1,523.00	1250.0	74	31.0	13.500	5.000	8.000	8.0	8.6	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
KLA STOP	BBL	1,233.57	10/9/2010		1.0		-26.0	1,233.57	32,072.82
BARITE-HALLIBURTON	SX	0.00	10/9/2010		42.0		-495.0	0.00	0.00
BARITE-HALLIBURTON	SX	0.00	10/9/2010		18.0		-513.0	0.00	0.00
BARITE-FEDERAL MI	SX	22.70	10/9/2010	672.0			672.0		0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/8/2010, Report # 42.0, DFS: 29.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,494.00	Depth End (mKB) 1,515.00	Depth Progress (m) 21.00	Drilling Hours (hrs) 18.75	Average ROP (m/hr) 1.1	Daily Mud Cost 428.67	Mud Additive Cost To Date 90,126.16
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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 (%)
16:00	KLA SHIELD	1,504.00	1250.0	78	29.0	13.500	4.500	7.000	8.0	9.1	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/8/2010		1.0		-14.0	390.26	5,463.64
CAUSTIC	SX	38.41	10/8/2010		1.0		40.0	38.41	768.20



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/7/2010, Report # 41.0, DFS: 28.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,487.00	Depth End (mKB) 1,494.00	Depth Progress (m) 7.00	Drilling Hours (hrs) 13.00	Average ROP (m/hr) 0.5	Daily Mud Cost 3,569.04	Mud Additive Cost To Date 89,697.49
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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 (%)
15:30	KLA SHIELD	1,494.00	1250.0	78	29.0	13.500	4.500	6.000	8.0	8.8	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/7/2010		1.0		-13.0	390.26	5,073.38
KLA STOP	BBL	1,233.57	10/7/2010		1.0		-25.0	1,233.57	30,839.25
CAUSTIC	SX	38.41	10/7/2010		1.0		41.0	38.41	729.79
BARITE-HALLIBURTON	SX	0.00	10/7/2010		84.0		-453.0	0.00	0.00
BARITE-MI	SX	22.70	10/7/2010		84.0		-126.0	1,906.80	2,860.20



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/6/2010, Report # 40.0, DFS: 27.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,471.00	Depth End (mKB) 1,487.00	Depth Progress (m) 16.00	Drilling Hours (hrs) 20.50	Average ROP (m/hr) 0.8	Daily Mud Cost 2,437.44	Mud Additive Cost To Date 86,128.45
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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 (%)
17:00	KLA SHIELD	1,475.00	1235.0	73	28.0	13.500	4.000	5.000	8.0	8.4	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/6/2010		1.0		-12.0	390.26	4,683.12
ULTRA CAP	SX	233.72	10/6/2010		1.0		-80.0	233.72	18,697.60
SODIUM BICARBONATE	SX		10/6/2010		2.0		-2.0		
SODA ASH	SX	29.57	10/6/2010		2.0		-2.0	59.14	59.14
WALNUT	SX		10/6/2010		1.0		-1.0		
SODA ASH	SX	29.57	10/6/2010		4.0		-6.0	118.28	177.42
ULTRA CAP	SX	233.72	10/6/2010		7.0		-87.0	1,636.04	20,333.64



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/5/2010, Report # 39.0, DFS: 26.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,471.00	Depth End (mKB) 1,471.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date 83,691.01
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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	1700	1,471.00	1255.0	87	34.0	16.500	5.000	8.000	8.0	8.5	10.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE-HALLIBURTON	SX	0.00	10/5/2010		42.0		-369.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/4/2010, Report # 38.0, DFS: 25.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,460.00	Depth End (mKB) 1,471.00	Depth Progress (m) 11.00	Drilling Hours (hrs) 5.50	Average ROP (m/hr) 2.0	Daily Mud Cost 2,910.20	Mud Additive Cost To Date 83,691.01
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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 (%)
16:30	KLA SHIELD	1,471.00	1250.0	84	36.0	15.500	5.000	7.000	8.0	8.5	10.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	38.41	10/4/2010		1.0		42.0	38.41	691.38
Defoam X	PAILS	390.26	10/4/2010		2.0		-10.0	780.52	3,902.60
ULTRA CAP	SX	233.72	10/4/2010		2.0		-79.0	467.44	18,463.88
Defoam X	PAILS	390.26	10/4/2010		1.0		-11.0	390.26	4,292.86
KLA STOP	BBL	1,233.57	10/4/2010		1.0		-24.0	1,233.57	29,605.68
BARITE-HALLIBURTON	SX	0.00	10/4/2010		42.0		-327.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/3/2010, Report # 37.0, DFS: 24.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,407.00	Depth End (mKB) 1,460.00	Depth Progress (m) 53.00	Drilling Hours (hrs) 14.00	Average ROP (m/hr) 3.8	Daily Mud Cost 2,871.79	Mud Additive Cost To Date 80,780.81
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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 (%)
16:00	KLA SHIELD	1,439.00	1250.0	84	31.0	15.500	5.000	6.000	8.0	8.6	9.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
DEFOAM X	SX	390.26	10/3/2010		1.0		-1.0	390.26	390.26
KLA STOP	BBL	1,233.57	10/3/2010		1.0		-23.0	1,233.57	28,372.11
Defoam X	PAISL	390.26	10/3/2010		2.0		-8.0	780.52	3,122.08
ULTRA CAP	SX	233.72	10/3/2010		2.0		-77.0	467.44	17,996.44



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/2/2010, Report # 36.0, DFS: 23.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,387.00	Depth End (mKB) 1,406.00	Depth Progress (m) 19.00	Drilling Hours (hrs) 11.25	Average ROP (m/hr) 1.7	Daily Mud Cost 2,715.25	Mud Additive Cost To Date 77,909.02
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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 (%)
13:15	KLA SHIELD	1,407.00	1250.0	86	30.0	17.500	5.500	7.000	8.0	8.6	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	10/2/2010		1.0		-5.0	390.26	1,951.30
ULTRA CAP	SX	233.72	10/2/2010		3.0		-75.0	701.16	17,529.00
BARITE-HALLIBURTON	SX	0.00	10/2/2010		25.0		-235.0	0.00	0.00
Defoam X	PAILS	390.26	10/2/2010		1.0		-6.0	390.26	2,341.56
KLA STOP	BBL	1,233.57	10/2/2010		1.0		-22.0	1,233.57	27,138.54
BARITE-HALLIBURTON	SX	0.00	10/2/2010		50.0		-285.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 10/1/2010, Report # 35.0, DFS: 22.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,342.00	Depth End (mKB) 1,366.00	Depth Progress (m) 24.00	Drilling Hours (hrs) 11.25	Average ROP (m/hr) 2.1	Daily Mud Cost 2,987.38	Mud Additive Cost To Date 75,193.77
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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 (%)
16:00	KLA SHIELD	1,373.00	1250.0	78	29.0	14.500	4.500	5.000	8.0	8.9	10.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ULTRA CAP	SX	233.72	10/1/2010		2.0		-70.0	467.44	16,360.40
KLA STOP	BBL	1,233.57	10/1/2010		1.0		-21.0	1,233.57	25,904.97
CAUSTIC	SX	38.41	10/1/2010		1.0		43.0	38.41	652.97
Defoam X	PAILS	390.26	10/1/2010		2.0		-4.0	780.52	1,561.04
ULTRA CAP	SX	233.72	10/1/2010		2.0		-72.0	467.44	16,827.84



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/30/2010, Report # 34.0, DFS: 21.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,331.00	Depth End (mKB) 1,342.00	Depth Progress (m) 11.00	Drilling Hours (hrs) 10.75	Average ROP (m/hr) 1.0	Daily Mud Cost 3,588.13	Mud Additive Cost To Date 72,206.39
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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 (%)
16:00	KLA SHIELD	1,341.00	1250.0	80	28.0	15.000	4.500	5.500	8.0	8.7	11.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	9/30/2010		1.0		-2.0	390.26	780.52
KLA STOP	BBL	1,233.57	9/30/2010		1.0		-20.0	1,233.57	24,671.40
ULTRA CAP	SX	233.72	9/30/2010		1.0		-65.0	233.72	15,191.80
ULTRA CAP	SX	233.72	9/30/2010		3.0		-68.0	701.16	15,892.96
NUT PLUG	SX	25.34	9/30/2010		3.0		-3.0	76.02	76.02
BARITE-HALLIBURTON	SX	0.00	9/30/2010		42.0		-210.0	0.00	0.00
BARITE-MI	SX	22.70	9/30/2010		42.0		-42.0	953.40	953.40



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/29/2010, Report # 33.0, DFS: 20.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,290.00	Depth End (mKB) 1,301.00	Depth Progress (m) 11.00	Drilling Hours (hrs) 6.75	Average ROP (m/hr) 1.6	Daily Mud Cost 4,747.42	Mud Additive Cost To Date 68,618.26
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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 (%)
16:30	KLA SHIELD	1,309.00	1250.0	80	29.0	15.500	4.000	5.000	8.0	8.8	11.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
Defoam X	PAILS	390.26	9/29/2010		1.0		-1.0	390.26	390.26
KLA STOP	BBL	1,233.57	9/29/2010		1.0		-19.0	1,233.57	23,437.83
DEFOAMER	PAILS	354.49	9/29/2010		1.0		-10.0	354.49	3,544.90
DUO VIS	SX	99.09	9/29/2010		2.0		-50.0	198.18	4,954.50
ULTRA CAP	SX	233.72	9/29/2010		11.0		-64.0	2,570.92	14,958.08
BARITE-HALLIBURTON	SX	0.00	9/29/2010		168.0		-168.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/28/2010, Report # 32.0, DFS: 19.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,259.00	Depth End (mKB) 1,283.00	Depth Progress (m) 24.00	Drilling Hours (hrs) 10.25	Average ROP (m/hr) 2.3	Daily Mud Cost 4,293.50	Mud Additive Cost To Date 63,870.84
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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 (%)
14:30	KLA SHIELD	1,290.00	1250.0	60	24.0	15.000	4.000	5.000	8.0	8.8	11.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
HEC 10	BBL		9/28/2010		1.0		-1.0		
LIGNITE	SX	34.00	9/28/2010		1.0		-15.0	34.00	510.00
KLA STOP	BBL	1,233.57	9/28/2010		1.0		-18.0	1,233.57	22,204.26
CAUSTIC	SX	38.41	9/28/2010		1.0		44.0	38.41	614.56
defoamer x	PAILS	390.26	9/28/2010		1.0		-1.0	390.26	390.26
DEFOAMER	PAILS	354.49	9/28/2010		2.0		-9.0	708.98	3,190.41
ULTRA CAP	SX	233.72	9/28/2010		4.0		-53.0	934.88	12,387.16
BARITE	SX	22.70	9/28/2010		42.0		-210.0	953.40	4,767.00
BARITE HALLIBURTON	SX	0.00	9/28/2010		252.0		-1,321.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/27/2010, Report # 31.0, DFS: 18.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,225.00	Depth End (mKB) 1,259.00	Depth Progress (m) 34.00	Drilling Hours (hrs) 10.25	Average ROP (m/hr) 3.3	Daily Mud Cost 2,018.57	Mud Additive Cost To Date 59,577.34
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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 (%)
16:00	KLA SHIELD	1,232.00	1255.0	73	24.0	16.000	4.000	5.000	8.0	9.0	11.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE HALLIBURTON	SX	0.00	9/27/2010		35.0		-1,069.0	0.00	0.00
KLA STOP	BBL	1,233.57	9/27/2010		1.0		-17.0	1,233.57	20,970.69
DEFOAMER	PAISL	354.49	9/27/2010		2.0		-7.0	708.98	2,481.43
NUT PLUG FINE	SX	25.34	9/27/2010		3.0		-3.0	76.02	76.02



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/26/2010, Report # 30.0, DFS: 17.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,209.00	Depth End (mKB) 1,225.00	Depth Progress (m) 16.00	Drilling Hours (hrs) 4.75	Average ROP (m/hr) 3.4	Daily Mud Cost 5,498.78	Mud Additive Cost To Date 57,558.77
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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	KLA SHIELD	1,225.00	1250.0	75	25.0	16.000	3.000	4.000	7.0	8.8	11.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
BARITE HALLIBURTON	SX	0.00	9/26/2010		137.0		-142.0	0.00	0.00
ULTRA CAP	SX	233.72	9/26/2010		2.0		-49.0	467.44	11,452.28
DEFOAMER	PAILS	354.49	9/26/2010		2.0		-5.0	708.98	1,772.45
KLA STOP	BBL	1,233.57	9/26/2010		3.0		-16.0	3,700.71	19,737.12
CAUSTIC	SX	38.41	9/26/2010		4.0		45.0	153.64	576.15
SODIUM BI CARB	SX	27.53	9/26/2010		17.0		-42.0	468.01	1,156.26
BARITE HALLIBURTON	SX	0.00	9/26/2010		892.0		-1,034.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/25/2010, Report # 29.0, DFS: 16.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,113.00	Depth End (mKB) 1,207.00	Depth Progress (m) 94.00	Drilling Hours (hrs) 9.50	Average ROP (m/hr) 9.9	Daily Mud Cost 2,821.63	Mud Additive Cost To Date 52,059.99
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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 (%)
17:00	KLA SHIELD	1,156.00	1140.0	92	20.0	17.000	8.000	10.000	6.0	9.1	7.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
KLA STOP	BBL	1,233.57	9/25/2010		1.0		-12.0	1,233.57	14,802.84
BARITE HALLIBURTON	SX	0.00	9/25/2010		35.0		271.0	0.00	0.00
KLA STOP	BBL	1,233.57	9/25/2010		1.0		-13.0	1,233.57	16,036.41
DEFOAMER	PAISLS	354.49	9/25/2010		1.0		-3.0	354.49	1,063.47
BARITE HALLIBURTON	SX	0.00	9/25/2010		276.0		-5.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/24/2010, Report # 28.0, DFS: 15.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,113.00	Depth End (mKB) 1,113.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,821.78	Mud Additive Cost To Date 49,238.36
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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	KLA SHIELD	785.00	1140.0	104			10.000	12.000	6.0	9.5	7.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
KLA STOP	BBL	1,233.57	9/24/2010		1.0		-11.0	1,233.57	13,569.27
ULTRA CAP	SX	233.72	9/24/2010		1.0		-47.0	233.72	10,984.84
DEFOAMER	PAILS	354.49	9/24/2010		1.0		-2.0	354.49	708.98
BARITE HALLIBURTON	SX	0.00	9/24/2010		42.0		306.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/23/2010, Report # 27.0, DFS: 14.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 1,045.00	Depth End (mKB) 1,113.00	Depth Progress (m) 68.00	Drilling Hours (hrs) 9.75	Average ROP (m/hr) 7.0	Daily Mud Cost 4,188.41	Mud Additive Cost To Date 47,416.58
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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	KLA SHIELD	1,113.00	1130.0	82	22.0	23.000	10.000	12.000	7.0	10.0	7.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
KLA STOP	BBL	1,233.57	9/23/2010		1.0		-9.0	1,233.57	11,102.13
DUO VIS	SX	99.09	9/23/2010		2.0		-48.0	198.18	4,756.32
ULTRA CAP	SX	233.72	9/23/2010		5.0		-46.0	1,168.60	10,751.12
BARITE HALLIBURTON	SX	0.00	9/23/2010		106.0		390.0	0.00	0.00
KLA STOP	BBL	1,233.57	9/23/2010		1.0		-10.0	1,233.57	12,335.70
DEFOAMER	PAILS	354.49	9/23/2010		1.0		-1.0	354.49	354.49
BARITE HALLIBURTON	SX	0.00	9/23/2010		42.0		348.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/22/2010, Report # 26.0, DFS: 13.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 743.00	Depth End (mKB) 1,045.00	Depth Progress (m) 508.00	Drilling Hours (hrs) 26.75	Average ROP (m/hr) 19.0	Daily Mud Cost 11,952.51	Mud Additive Cost To Date 43,228.17
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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	KLA SHIELD	970.00	1100.0	88	22.0	18.000	10.000	12.000	7.0	10.0	3.0

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
DEFOAMER	SX		9/22/2010		2.0		-2.0		
POLY PAC UL	SX	134.93	9/22/2010		6.0		-6.0	809.58	809.58
POLY PAC R	SX	134.93	9/22/2010		6.0		-6.0	809.58	809.58
ULTRA CAP	SX	233.72	9/22/2010		6.0		-29.0	1,402.32	6,777.88
BARITE	SX	22.70	9/22/2010		84.0		-84.0	1,906.80	1,906.80
DEFOAMER	SX		9/22/2010		4.0		-6.0		
DUO VIS	SX	99.09	9/22/2010		7.0		-46.0	693.63	4,558.14
POLY PAC R	SX	134.93	9/22/2010		12.0		-18.0	1,619.16	2,428.74
ULTRA CAP	SX	233.72	9/22/2010		12.0		-41.0	2,804.64	9,582.52
BARITE	SX	22.70	9/22/2010		84.0		-168.0	1,906.80	3,813.60



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/21/2010, Report # 25.0, DFS: 12.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 572.00	Depth End (mKB) 743.00	Depth Progress (m) 171.00	Drilling Hours (hrs) 14.75	Average ROP (m/hr) 11.6	Daily Mud Cost 17,214.98	Mud Additive Cost To Date 31,275.66
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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	KLA SHIELD	645.00	1080.0	58	13.0	11.500	10.000	14.000	9.0	10.0	3.5

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
ULTRA CAP	SX	233.72	9/21/2010		7.0		-7.0	1,636.04	1,636.04
KLA STOP	BBL	1,233.57	9/21/2010		8.0		-8.0	9,868.56	9,868.56
SODIUM BI CARB	SX	27.53	9/21/2010		14.0		-25.0	385.42	688.25
ULTRA CAP	SX	233.72	9/21/2010		16.0		-23.0	3,739.52	5,375.56
DUO VIS	SX	99.09	9/21/2010		16.0		-39.0	1,585.44	3,864.51



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/20/2010, Report # 24.0, DFS: 11.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 572.00	Depth End (mKB) 572.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,817.34	Mud Additive Cost To Date 14,060.68
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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	KLA SHIELD	570.00	1120.0	52	22.0	3.000	4.000	4.000	14.0	10.5	6.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
DUO VIS	SX	99.09	9/20/2010		2.0		-23.0	198.18	2,279.07
POLYPAC UL	SX	134.93	9/20/2010		12.0		-12.0	1,619.16	1,619.16



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/19/2010, Report # 23.0, DFS: 10.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 572.00	Depth End (mKB) 572.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 1,315.70	Mud Additive Cost To Date 12,243.34
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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 (%)
14:00	GEL CHEM	570.00	1120.0	52	22.0	3.000	4.000	10.000	14.0	10.5	6.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
SODIUM BI CARB	SX	27.53	9/19/2010		1.0		-11.0	27.53	302.83
DUO VIS	SX	99.09	9/19/2010		13.0		-21.0	1,288.17	2,080.89



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/18/2010, Report # 22.0, DFS: 9.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 572.00	Depth End (mKB) 572.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 275.30	Mud Additive Cost To Date 10,927.64
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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	570.00	1100.0	54	23.0	3.000	4.000	4.000	15.0	11.0	7.2

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
SODIUM BI CARB	SX	27.53	9/18/2010		10.0		-10.0	275.30	275.30



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/17/2010, Report # 21.0, DFS: 8.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 572.00	Depth End (mKB) 572.00	Depth Progress (m) 0.00	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost	Mud Additive Cost To Date 10,652.34
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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 (%)
19:00	Gel Chem	570.00	1110.0	62	32.0	13.000	7.000	5.000	10.5	9.5	6.8

Mud Additive Amounts

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



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/16/2010, Report # 20.0, DFS: 7.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 556.00	Depth End (mKB) 572.00	Depth Progress (m) 16.00	Drilling Hours (hrs) 5.75	Average ROP (m/hr) 2.8	Daily Mud Cost 511.59	Mud Additive Cost To Date 10,652.34
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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	556.00	1130.0	65	36.0	14.000	6.000	5.000	9.0	9.5	6.2

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	38.41	9/16/2010		3.0		49.0	115.23	422.51
DUO VIS	SX	99.09	9/16/2010		4.0		-8.0	396.36	792.72
BARITE HALLIBURTON	SX	0.00	9/16/2010		30.0		496.0	0.00	0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/15/2010, Report # 19.0, DFS: 6.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 470.00	Depth End (mKB) 556.00	Depth Progress (m) 86.00	Drilling Hours (hrs) 23.00	Average ROP (m/hr) 3.7	Daily Mud Cost 903.92	Mud Additive Cost To Date 10,140.75
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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	540.00	1100.0	65	36.0	14.000	6.000	5.000	9.0	9.5	6.2

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	38.41	9/15/2010		2.0		52.0	76.82	307.28
LIGNITE	SX	34.00	9/15/2010		4.0		-9.0	136.00	306.00
GEL	SX	19.30	9/15/2010		12.0		-422.0	231.60	8,144.60
LIGNITE	SX	34.00	9/15/2010		5.0		-14.0	170.00	476.00
GEL	SX	19.30	9/15/2010		15.0		-437.0	289.50	8,434.10



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/14/2010, Report # 18.0, DFS: 5.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 382.00	Depth End (mKB) 470.00	Depth Progress (m) 88.00	Drilling Hours (hrs) 21.75	Average ROP (m/hr) 4.0	Daily Mud Cost 1,419.59	Mud Additive Cost To Date 9,236.83
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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	449.00	1100.0	74	44.0	16.500	9.000	9.000	10.0	10.0	6.2

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	38.41	9/14/2010		3.0		54.0	115.23	230.46
DUO VIS	SX	99.09	9/14/2010		4.0		-4.0	396.36	396.36
GEL	SX	19.30	9/14/2010		20.0		-390.0	386.00	7,527.00
LIGNITE	SX	34.00	9/14/2010		4.0		-5.0	136.00	170.00
GEL	SX	19.30	9/14/2010		20.0		-410.0	386.00	7,913.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/13/2010, Report # 17.0, DFS: 4.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 274.00	Depth End (mKB) 382.00	Depth Progress (m) 108.00	Drilling Hours (hrs) 21.00	Average ROP (m/hr) 5.1	Daily Mud Cost 1,273.23	Mud Additive Cost To Date 7,817.24
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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	355.00	1110.0	84	46.0	18.000	8.000	9.000	12.0	10.5	6.8

Mud Additive Amounts

Description	Units	Cost (/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Cost	Cum Cost
CAUSTIC	SX	38.41	9/13/2010		3.0		57.0	115.23	115.23
GEL	SX	19.30	9/13/2010		55.0		-365.0	1,061.50	7,044.50
GEL	SX	19.30	9/13/2010		5.0		-370.0	96.50	7,141.00
M+X II FINE	SX	27.73	9/13/2010	35.0			35.0		0.00
M+X II MEDIUM	SX	27.73	9/13/2010	35.0			35.0		0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/12/2010, Report # 16.0, DFS: 3.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 140.00	Depth End (mKB) 274.00	Depth Progress (m) 134.00	Drilling Hours (hrs) 21.25	Average ROP (m/hr) 6.3	Daily Mud Cost 1,398.23	Mud Additive Cost To Date 6,544.01
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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
CAUSTIC	SX	47.91	9/12/2010		2.0		-10.0	95.82	479.10
GEL	SX	19.30	9/12/2010		15.0		-260.0	289.50	5,018.00
CAUSTIC	SX	47.91	9/12/2010		1.0		-11.0	47.91	527.01
GEL	SX	19.30	9/12/2010		50.0		-310.0	965.00	5,983.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/11/2010, Report # 15.0, DFS: 2.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 115.00	Depth End (mKB) 148.00	Depth Progress (m) 33.00	Drilling Hours (hrs) 9.00	Average ROP (m/hr) 3.7	Daily Mud Cost 385.32	Mud Additive Cost To Date 5,145.78
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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
CAUSTIC	SX	47.91	9/11/2010		2.0		-8.0	95.82	383.28
GEL	SX	19.30	9/11/2010		15.0		-245.0	289.50	4,728.50



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/10/2010, Report # 14.0, DFS: 1.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 57.00	Depth End (mKB) 115.00	Depth Progress (m) 58.00	Drilling Hours (hrs) 19.50	Average ROP (m/hr) 3.0	Daily Mud Cost 143.73	Mud Additive Cost To Date 4,760.46
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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
CAUSTIC	SX	47.91	9/10/2010		3.0		-6.0	143.73	287.46



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/9/2010, Report # 13.0, DFS: 0.63

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB) 0.00	Depth End (mKB) 57.00	Depth Progress (m) 57.00	Drilling Hours (hrs) 8.75	Average ROP (m/hr) 6.5	Daily Mud Cost 4,582.73	Mud Additive Cost To Date 4,616.73
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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
CAUSTIC	SX	47.91	9/9/2010		1.0		-1.0	47.91	47.91
GEL	SX	19.30	9/9/2010		110.0		-110.0	2,123.00	2,123.00
CAUSTIC	SX	47.91	9/9/2010		2.0		-3.0	95.82	143.73
GEL	SX	19.30	9/9/2010		120.0		-230.0	2,316.00	4,439.00
FEDERAL GEL	SX	19.30	9/9/2010	720.0			720.0		0.00
DUO-VIS	SX	99.09	9/9/2010	80.0			80.0		0.00
DRIL-THIN	SX	60.43	9/9/2010	42.0			42.0		0.00
POLYPAC R	SX	134.93	9/9/2010	105.0			105.0		0.00
PULPRO 20	SX	12.43	9/9/2010	360.0			360.0		0.00
SAPP	SX	69.07	9/9/2010	10.0			10.0		0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/8/2010, Report # 12.0, DFS: -0.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Depth Start (mKB)	Depth End (mKB)	Depth Progress (m)	Drilling Hours (hrs)	Average ROP (m/hr)	Daily Mud Cost 34.00	Mud Additive Cost To Date 34.00
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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
LIGNITE	SX	34.00	9/8/2010		1.0		-1.0	34.00	34.00
BARITE HALLIBURTON	SX	0.00	9/8/2010	672.0	146.0		526.0	0.00	0.00
CAUSTIC	SX	38.41	9/8/2010	60.0			60.0		0.00
LIME	SX	21.33	9/8/2010	40.0			40.0		0.00



Daily Mud

Well Name: NALCOR ET.AL FINNEGAN #1

Report Date: 9/7/2010, Report # 11.0, DFS: -1.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 9/6/2010, Report # 10.0, DFS: -2.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 9/5/2010, Report # 9.0, DFS: -3.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 9/4/2010, Report # 8.0, DFS: -4.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 9/3/2010, Report # 7.0, DFS: -5.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 9/2/2010, Report # 6.0, DFS: -6.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 9/1/2010, Report # 5.0, DFS: -7.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 8/31/2010, Report # 4.0, DFS: -8.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 8/30/2010, Report # 3.0, DFS: -9.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 8/29/2010, Report # 2.0, DFS: -10.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Report Date: 8/28/2010, Report # 1.0, DFS: -11.38

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 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
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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 FINNEGAN #1

Job Type: Drilling - original

API/UWI N/A	Surface Legal Location 50:540.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

AFE Number	Start Date 8/28/2010	End Date 12/5/2010	Spud Date 9/9/2010	Rig Release Date 12/5/2010	Total Mud Additive Cost 419,137.18
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Rigs					
Contractor	Rig No.	Rig Type	Start Date	RR Date	
STONEHAM DRILLING INC.	11		9/9/2010	12/5/2010	

Mud Additives							
Description	Cost (/unit)	Units	Rec	Consumed	Returned	On Loc	Total Cost
ALKAPAM A1103D	246.36	SX					
BARA DEFOAM HP	354.39	EA					
BARAFOS	97.10	SX					
BARASEAL MEDIUM	38.07	SX					
BARATHIN	82.39	SX					
BARATROL PLUS	136.16	SX					
BARAZAN	184.89	SX					
BARITE	22.70	SX		210.0		-210.0	4,767.00
BARITE HALLIBURTON	0.00	SX	672.0	1,993.0		-1,321.0	0.00
BARITE-FEDERAL MI	22.70	SX	672.0			672.0	
BARITE-HALLIBURTON	0.00	SX		1,772.0		-1,772.0	0.00
BARITE-MI	22.70	SX		1,955.0		-1,955.0	44,378.50
BICARB	33.71	SX					
CAL CARB '0'	11.97	SX					
CAL CARB 325	11.97	SX					
CALCIUM NITRATE	53.24	SX					
CALCIUM NITRATE MI	39.30	SX					
CARBONOX	18.67	SX					
CAUSTIC	47.91	SX		11.0		-11.0	527.01
CAUSTIC	38.41	SX	60.0	21.0		39.0	806.61
CAUSTIC MI	38.41	SX					
CAUSTIC(HAL)		SX		2.0		-2.0	0.00
CELLOPHANE	54.09	SX					
CITRIC ACID	158.68	SX		13.0		-13.0	2,062.84
CITRIC ACID MI	180.58	SX					
CLAY SYNC	386.36	SX					
CLAYSYNC II	396.36	SX					
COST ADJUSTMENT	172,472.30	DAY		1.0		-1.0	172,472.30
D-AIR 3000	827.94	EA					
Defoam X	390.26	PAIS		47.0		-47.0	18,342.22
DEFOAM X	390.26	SX		11.0		-11.0	4,292.86
DEFOAMER	354.49	PAIS		10.0		-10.0	3,544.90
DEFOAMER		SX		6.0		-6.0	0.00
defoamer x	390.26	PAIS		1.0		-1.0	390.26
DETERGENT	49.40	EA					
DRIL-THIN	60.43	SX	42.0			42.0	
DUO VIS	99.09	SX		78.0		-78.0	7,729.02
DUO-VIS	99.09	SX	80.0			80.0	
DUO-VIS 25 KG BAG	218.45	SX					
ENGINEERING / EQUIPMENT	1,950.00	DAY		32.0		-32.0	62,400.00
ENVIRO CHARGE 20L PAIL	20.00	EA					
FEDERAL GEL	19.30	SX	720.0			720.0	
GEL	19.30	SX		439.0		-439.0	8,472.70
HEC 10		BBL		1.0		-1.0	0.00
KLA STOP	1,233.57	BBL		36.0		-36.0	44,408.52
KLA STOP		PAIS		1.0		-1.0	0.00
KONTROL	131.16	SX					
LIGNITE	34.00	SX		52.0		-52.0	1,768.00
LIGNITE MI	20.10	SX					
LIME	21.33	SX	40.0			40.0	
MH-X II FINE	27.73	SX	35.0			35.0	
MH-X II MEDIUM	27.73	SX	35.0			35.0	
MUD BALANCE	25.00	EA					
NUT PLUG	25.34	SX		3.0		-3.0	76.02
NUT PLUG FINE	25.34	SX		3.0		-3.0	76.02



Mud Additive Summary

Well Name: NALCOR ET.AL FINNEGAN #1

Job Type: Drilling - original

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Mud Additives

Description	Cost (/unit)	Units	Rec	Consumed	Returned	On Loc	Total Cost
PALLETS	25.00	EA					
POLY PAC R	134.93	SX		22.0		-22.0	2,968.46
POLY PAC UL	134.93	SX		28.0		-28.0	3,778.04
POLYPAC R	134.93	SX	105.0			105.0	
POLYPAC R	135.00	SX					
POLYPAC UL	134.93	SX		12.0		-12.0	1,619.16
POLYPAC UL	135.00	SX					
POLYPLUS RD	156.11	SX		1.0		-1.0	156.11
PULPRO 20	12.43	SX	360.0			360.0	
SAPP	69.07	SX	10.0			10.0	
SAWDUST	10.71	SX	300.0			300.0	
SHRINKWRAP	25.00	EA					
SHRINKWRAP MI	16.00	EA					
SODA ASH	29.57	SX		41.0		-41.0	1,212.37
SODIUM BI CARB	27.53	SX		74.0		-74.0	2,037.22
SODIUM BICARBONATE		SX		2.0		-2.0	0.00
ULTRA CAP	233.72	SX		132.0		-132.0	30,851.04
WALNUT		SX		1.0		-1.0	0.00
ZETAG 7587	395.59	SX					
ZETAG 7692	828.85	SX					

Appendix E – Daily Drilling Reports



Daily Drilling

Report for: 8/28/2010
Report #: 1.0, DFS: -11.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition	Hole Condition 0

Operations at Report Time
LAYING DOWN COLLARS

Operations Next Report Period
RUN IN HOLE WITH CEMENT STINGER

Operations Summary
Held safety meeting with Mullens Trucking, Rig crew, Nalcor safety rep and all involved in rig move. Started to tear out rig. Move rentals, legal loads and mud chemicals to new location.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment

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

AFE Number	Total AFE Amount
Daily Cost Total 15,155.00	Cum Cost To Date 15,155.00
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts

Job Contact	Mobile

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

1, GARDNER DENVER, PZ-11		
Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

2, GARDNER DENVER, PZ-11		
Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 8/29/2010
Report #: 2.0, DFS: -10.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition	Hole Condition

AFE Number	Total AFE Amount
Daily Cost Total 15,155.00	Cum Cost To Date 30,310.00
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Operations at Report Time

Operations Next Report Period

Operations Summary
Held safety meeting with Mullens Trucking, Rig crew, Nalcor safety rep and all involved in rig move. Move rentals, legal loads and mud chemicals to new location. Loaded derrick and sub base.

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
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Fluid Properties

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)		

Drill Bit & Nozzles

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
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Daily Contacts

Job Contact	Mobile
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STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
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Safety Checks

Time	Type	Description
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Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 8/30/2010

Report #: 3.0, DFS: -9.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A	Surface Legal Location 50:540.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition	Hole Condition

AFE Number	Total AFE Amount
Daily Cost Total 23,969.48	Cum Cost To Date 54,279.48
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Operations at Report Time: _____ Operations Next Report Period: _____

Operations Summary
Held safety meeting with Mullens Trucking, Rig crew, Nalcor safety rep and all involved in rig move.
Spot matting. Move rig to new location.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment

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 To

Daily Contacts

Job Contact	Mobile

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
	279.0	
Pres (kPa)	Slow Spd	Strokes (s...)
	No	

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 8/31/2010

Report #: 4.0, DFS: -8.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A		Surface Legal Location 50:5:40.893N / 57:36:27.955W		License No. 3-102		State/Province Newfoundland						
Spud Date 9/9/2010 9:00:00 AM		Rig Release Date 12/5/2010 11:59:00 PM		Ground Elevation (m) 118.75		KB-Ground Distance (m) 6.25						
Weather		Temperature (°C)		Road Condition		Hole Condition						
Operations at Report Time				Operations Next Report Period								
Operations Summary Spot rig and rig up												
Time Log												
Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment						
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
Daily Cost Total 336,817.00	Cum Cost To Date 391,096.48
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635
1, GARDNER DENVER, PZ-11	
Pump Number 1	Pwr (kW)
Liner Size (mm)	Stroke (mm)
Vol/Stk OR (m³/...)	279.0
Pres (kPa)	Slow Spd No
Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11	
Pump Number 2	Pwr (kW)
Liner Size (mm)	Stroke (mm)
Vol/Stk OR (m³/...)	279.0
Pres (kPa)	Slow Spd No
Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed

Safety Checks		
Time	Type	Description

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/1/2010

Report #: 5.0, DFS: -7.38

Depth Progress:

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A		Surface Legal Location 50:5:40.893N / 57:36:27.955W		License No. 3-102		State/Province Newfoundland						
Spud Date 9/9/2010 9:00:00 AM		Rig Release Date 12/5/2010 11:59:00 PM		Ground Elevation (m) 118.75		KB-Ground Distance (m) 6.25						
Weather		Temperature (°C)		Road Condition		Hole Condition						
Operations at Report Time				Operations Next Report Period								
Operations Summary Rig to spud												
Time Log												
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment						
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
Daily Cost Total 15,155.00	Cum Cost To Date 406,251.48
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

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

1, GARDNER DENVER, PZ-11		
Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
279.0		
Pres (kPa)	Slow Spd	Strokes (s... Eff (%)
No		

2, GARDNER DENVER, PZ-11		
Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
279.0		
Pres (kPa)	Slow Spd	Strokes (s... Eff (%)
No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed

Safety Checks		
Time	Type	Description

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/2/2010

Report #: 6.0, DFS: -6.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition	Hole Condition

AFE Number	Total AFE Amount
Daily Cost Total 15,155.00	Cum Cost To Date 421,406.48
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Operations at Report Time

Operations Next Report Period

Operations Summary
Held prespud safety meeting with Nalcor safety rep, Rig to spud.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment

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 To

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
	279.0	
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/4/2010
Report #: 8.0, DFS: -4.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition	Hole Condition

AFE Number	Total AFE Amount
Daily Cost Total 15,155.00	Cum Cost To Date 451,716.48
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Operations at Report Time: _____ Operations Next Report Period: _____

Operations Summary
Rig to spud. Nipped up diverter and function tested.

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment

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 Tg

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'Leary	709 725 4365

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
	279.0	
Pres (kPa)	Slow Spd	Strokes (s...)
	No	
		Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/5/2010
Report #: 9.0, DFS: -3.38
Depth Progress:

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition	Hole Condition
Operations at Report Time		Operations Next Report Period	

Operations Summary
Wait on weather. Rig in flow nipple and removed to weld

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment

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

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

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/6/2010
Report #: 10.0, DFS: -2.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A		Surface Legal Location 50:5:40.893N / 57:36:27.955W		License No. 3-102		State/Province Newfoundland						
Spud Date 9/9/2010 9:00:00 AM		Rig Release Date 12/5/2010 11:59:00 PM		Ground Elevation (m) 118.75		KB-Ground Distance (m) 6.25						
Weather		Temperature (°C)		Road Condition		Hole Condition						
Operations at Report Time				Operations Next Report Period								
Operations Summary Rig in flow nipple,offload mud and casing												
Time Log												
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment						
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
Daily Cost Total 15,155.00	Cum Cost To Date 482,026.48
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed

Safety Checks		
Time	Type	Description
00:00	Safety Meeting	HOUSE KEEPING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/7/2010
Report #: 11.0, DFS: -1.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A	Surface Legal Location 50:540.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 14	Road Condition GOOD	Hole Condition
Operations at Report Time		Operations Next Report Period	

Operations Summary

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	07:00	7.00	7.00	23	WAITING ON	W/O DAYLIGHT
07:00	07:15	0.25	7.25	21	SAFETY MEETING	SAFETY MEETING
07:15	12:00	4.75	12.00	23	WAITING ON	W/O ORDERS / UNLOAD CASING AND MUD PRODUCTS
12:00	13:00	1.00	13.00	21	SAFETY MEETING	SAFETY MEETING / PRE-SPUD MEETING WITH IAN OLEARY (NALCOR ENERGY) BILL WILLIAMS (NALCOR ENERGY ON-SITE REP), OPTIMAX REP, MUD LOGGER, RIG MANAGER AND CREW
13:00	19:00	6.00	19.00	23	WAITING ON	W/O ORDERS / UNLOAD MUD PRODUCTS, GENERAL HOUSE KEEPING, MOVE THINGS AROUND LOCATION TO MAKE THINGS MOVE ACCESSIBLE
19:00	00:00	5.00	24.00	23	WAITING ON	W/O DAYLIGHT

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
Daily Cost Total 24,755.00	Cum Cost To Date 506,781.48
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.	Rig Number 11		
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635		
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			

Mud Additive Amounts		
Description	Cost (/Unit)	Consumed

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	PRE-SPUD MEETING
00:00	Safety Meeting	LOADER OPS

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/8/2010

Report #: 12.0, DFS: -0.38

Well Name: NALCOR ET.AL FINNEGAN #1

Depth Progress:

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 10	Road Condition GOOD	Hole Condition
Operations at Report Time		Operations Next Report Period	

AFE Number	Total AFE Amount
Daily Cost Total 52,396.00	Cum Cost To Date 559,177.48
Daily Mud Cost 34.00	Mud Additive Cost To Date 34.00
Depth Start (mKB)	Depth End (mKB)
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Operations Summary

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	07:00	7.00	7.00	23	WAITING ON	W/O DAYLIGHT
07:00	07:15	0.25	7.25	21	SAFETY MEETING	SAFETY MEETING
07:15	12:00	4.75	12.00	23	WAITING ON	W/O ORDERS , ARRANGE STABS , REAMERS , DIR. TOOLS AND COLLARS
12:00	12:15	0.25	12.25	21	SAFETY MEETING	SAFETY MEETING , REVIEW SAFETY ALERT ON ROLLING TUBULARS FATILITY
12:15	18:30	6.25	18.50	23	WAITING ON	W/O ORDERS , CONT ORGANIZING LEASE AND SEA CAN , INSTALL RIG FLOOR TARPS
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	19:30	0.75	19.50	15	TEST B.O.P.	FUNCTION TEST DIVERTER / ACCUMULATOR FUNCTION TEST - START PRESSURE 21000 KPA, CLOSE DIVERTER 33 SEC, OPEN HCR VALVE 2 SEC, REMAINING PRESSURE 10800, RECHARGE TIME W/PUMP 1- 3MIN 9 SEC, W/PUMP 2- 3MIN 17 SEC W/BOTH PUMPS 1 MIN 36 SEC
19:30	00:00	4.50	24.00	23	WAITING ON	W/O ORDERS /

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s... Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
LIGNITE	34.00	1.0
BARITE	0.00	146.0
HALLIBURTON		

Safety Checks

Time	Type	Description
12:00	Safety Meeting	ROLLING TUBULARS
00:00	Safety Meeting	PRE SPUD

Wellbores

Wellbore Name	KO MD (mKB)
Original 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/m²)	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 To



Daily Drilling

Report for: 9/9/2010
 Report #: 13.0, DFS: 0.63
 Depth Progress: 57.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 10	Road Condition GOOD	Hole Condition
Operations at Report Time		Operations Next Report Period	

Operations Summary
 Morning Tour Notes:
 CHECKED CROWN SAVERS @ 900 HRS
 CHECKED VALVE ALIGNMENT ON DIVERTER SYSTEM
 PRE-SPUD MEETING HELD WITH CREW AND ALL ON SITE PERSONELLE
 Day Tour Notes:
 CHECKED BOTH CROWN SAVERS @ 1500 HRS

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	07:00	7.00	7.00	23	WAITING ON	W/O ORDERS
07:00	07:30	0.50	7.50	21	SAFETY MEETING	SAFETY MEETING / CREW HANDOVER / REVIEW SAFETY ALERTS
07:30	07:45	0.25	7.75	21	SAFETY MEETING	SAFETY MEETING / PRE SPUD MEETING
07:45	08:00	0.25	8.00	15	TEST B.O.P.	PRESSURE TEST DIVITER SYSTEM TO 1200KPA FOR 10 MINS < OK >
08:00	09:00	1.00	9.00	23	WAITING ON	W/O ORDERS
09:00	09:30	0.50	9.50	2	DRILL ACTUAL	SPUD AND DRILL 444.5mm HOLE F/ 0m - 27m
09:30	11:30	2.00	11.50	5	COND MUD & CIRC	CONDITION MUD / GEL UP MUD SYSTEM
11:30	12:00	0.50	12.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 27m - 29m
12:00	14:00	2.00	14.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 29m - 37m
14:00	14:15	0.25	14.25	21	SAFETY MEETING	SAFETY MEETING , REVIEW JTAS ON 5 TONG OPS AND CONNECTION W/ 9\ D.C.S , REVIEW GO CARD
14:15	15:00	0.75	15.00	25		MAKE RAT HOLE CONNECTION W/ 9\ D.C. , RIG IN AND OUT 5 TONGS
15:00	15:15	0.25	15.25	7	RIG SERVICE	RIG SERVICE , CHECK AND RESET MECHANICAL CROWN SAVER
15:15	18:45	3.50	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 37m - 46m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	19:45	0.75	19.75	25		RIG UP TONGS TO BREAK DOWN 9DC
19:45	20:00	0.25	20.00	10	DEV. SURVEY	WIRELINE SURVEYS - MULTI-SHOT SURVEYS
20:00	23:00	3.00	23.00	2	DRILL ACTUAL	DRILL 444.5MM HOLE F/46M TO 56M
23:00	23:45	0.75	23.75	25		RIG UP TONGS TO BREAK DOWN 9DC
23:45	00:00	0.25	24.00	2	DRILL ACTUAL	DRILL 444.5MM HOLE F/56M TO 57M

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
Daily Cost Total 50,451.00	Cum Cost To Date 609,628.48
Daily Mud Cost 4,582.73	Mud Additive Cost To Date 4,616.73
Depth Start (mKB) 0.00	Depth End (mKB) 57.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
279.0		
Pres (kPa)	Slow Spd	Strokes (s...)
	No	

Mud Additive Amounts

Description	Cost (/Unit)	Consumed
CAUSTIC	47.91	1.0
GEL	19.30	110.0
CAUSTIC	47.91	2.0
GEL	19.30	120.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RAT HOLE CONNECTIONS W/ 9\ D.C.S
00:00	Safety Meeting	WORKING IN HIGH WIND CONDITIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/9/2010
 Report #: 13.0, DFS: 0.63
 Depth Progress: 57.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #1, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
1	444.5mm, XRTC, PP0749	0.42	1-2-WT-G-E-0.00-WT-BHA	2,395	3.9

Nozzles (mm)	String Length (m)	OD (mm)
	126.32	420.0

String Components
 SMITH XRTC, STAB-NEAR BIT, SHOCK SUB, STAB-STRING, X/O, DC (9.00 IN), DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tg
Original Hole	0.00	29.00	29.00	1.00	29.0		6	65	900			1,00...
Original Hole	29.00	57.00	57.00	8.75	3.6		5	110	1,160			2,00...



Daily Drilling

Report for: 9/10/2010
 Report #: 14.0, DFS: 1.63
 Depth Progress: 58.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 13	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time		Operations Next Report Period	

Operations Summary
 DRILLED SURFACE HOLE FROM 57 m TO 115 m.

Morning Tour Notes:
 F/T CROWN SAVER@2400HR
 JTA REVIEW 2-C RIG TONG OPERATION 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS
 Day Tour Notes:
 CHECKED MECHANICAL CROWN SAVER @ 1200 HRS
 CHECKED DIVERTER SYSTEM
 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/57M TO 65M
02:00	02:15	0.25	2.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECK ALL OILS F/T CROWN SAVER&RESET F/T HCR ON DIVERTER 2 SEC OPEN CLOS
02:15	02:45	0.50	2.75	2	DRILL ACTUAL	RIG IN TONGS AND MAKE RAT HOLE CONNECTION WITH 9D.C.
02:45	04:45	2.00	4.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/65m - 75m
04:45	05:15	0.50	5.25	2	DRILL ACTUAL	RIG IN TONGS AND MAKE RAT HOLE CONNECTION WITH 9D.C.
05:15	05:30	0.25	5.50	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
05:30	06:45	1.25	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/75m - 80m
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 444.5mm HOLE F/80m - 84m
07:30	07:45	0.25	7.75	21	SAFETY MEETING	REVIEW GO CARD ON RAT HOLE CONNECTION AND 5 RIG TONG OPS
07:45	08:15	0.50	8.25	25		MAKE RAT HOLE CONNECTION WITH 11\ SQUARE D.C. AND RIG IN AND OUT 5 RIG TONGS
08:15	11:45	3.50	11.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 84m - 93m
11:45	12:00	0.25	12.00	25		MAKE RAT HOLE CONNECTION WITH 11\ SQUARE D.C. AND RIG IN AND OUT 5 RIG TONGS
12:00	12:15	0.25	12.25	25		CONT TO MAKE CONNECTION
12:15	12:30	0.25	12.50	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS , SURVEY @ 82m WAS 2.68 DEG
12:30	12:45	0.25	12.75	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS < F/T ANNULAR / 30 SEC TO CLOSE >
12:45	17:30	4.75	17.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 93m - 102m
17:30	17:45	0.25	17.75	25		RATHOLE CONNECTION W/ 8\ D.C.
17:45	18:00	0.25	18.00	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEY @ 97m WAS 2.74 DEG
18:00	18:45	0.75	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 102m - 104m
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 444.5mm HOLE F/ 104m - 115M
23:45	00:00	0.25	24.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER@2400HR &RESET F/T H.C.R 2SEC CLOSE OPEN

AFE Number	Total AFE Amount
Daily Cost Total 48,386.41	Cum Cost To Date 658,014.89
Daily Mud Cost 143.73	Mud Additive Cost To Date 4,760.46
Depth Start (mKB) 57.00	Depth End (mKB) 115.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11

Rig Supervisor Martin Gould	Phone Mobile 709 765 0635
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1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
CAUSTIC	47.91	3.0	

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	HIGH ROTARY SPEEDS
00:00	Safety Meeting	SAFE LOADER OPERATIONS

Wellbores	
Wellbore Name	KO.MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/10/2010
 Report #: 14.0, DFS: 1.63
 Depth Progress: 58.00

Well Name: NALCOR ET.AL FINNEGAN #1

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 #1, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...	
1	444.5mm, XRTC, PP0749	0.42	1-2-WT-G-E-0.00-WT-BHA	2,395	3.9	
Nozzles (mm)	String Length (m)	OD (mm)				
	126.32	420.0				

String Components
 SMITH XRTC, STAB-NEAR BIT, SHOCK SUB, STAB-STRING, X/O, DC (9.00 IN), DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), 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 Tg
Original Hole	57.00	93.00	93.00	18.00	3.9	1.400	7	130	1,300			2,50...
Original Hole	93.00	115.00	115.00	28.25	2.1	1.400	6	160	1,400			2,40...



Daily Drilling

Report for: 9/11/2010

Report #: 15.0, DFS: 2.63

Depth Progress: 33.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 11	Road Condition FAIR	Hole Condition GOOD

Operations at Report Time
DRILLING AHEAD @ 190 m

Operations Next Report Period
DRILL AHEAD

Operations Summary
PULLED OUT AND MADE UP BAKER INTQ VERTITRACK ASSEMBLY WITH TRICONE INSERT BIT. CHANGED OUT PUMP LINERS TO 178 mm.
RAN IN HOLE AND DRILLED TO 148 m.

Morning Tour Notes:

CHECKED BRAKE LINKAGE PINS DEADMAN ANCHOR F/T CROWN SAVER @2400HR
JTA REVIEW 6-I DOG COLLAR USE 2-E MOUESHOLE CONNECTION WITH DC 2-F OPERATING DRILLER CONSOLE
TRIP VOLUMES - MEAS. 4.47m³, CALC. 4.10m³, DIFF. 0.37m³
CHECKED MECHANICAL CROWN SAVER @ 915 HRS

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 444.5mm HOLE F/115m - 129m
04:45	05:00	0.25	5.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T ANNULAR 31SEC CLOSE OPEN
05:00	05:15	0.25	5.25	10	DEV. SURVEY	WIRELINE SURVEYS - SINGLE SHOT SURVEYS
05:15	06:45	1.50	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/129m - 135m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	08:15	1.25	8.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 135m - 140m
08:15	08:45	0.50	8.75	5	COND MUD & CIRC	CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO RUN VERTITRAC
08:45	09:00	0.25	9.00	21	SAFETY MEETING	SAFETY MEETING ON TRIPPING BIG TOOLS
09:00	12:00	3.00	12.00	6	TRIPS	TRIP OUT OF HOLE TO RUN VERTITRAC , LAYDOWN STRING STAB , SHOCK SUB , NEAR BIT STAB AND 2 9/16 D.C.S
12:00	12:30	0.50	12.50	6	TRIPS	CONT TRIP OUT OF HOLE
12:30	13:30	1.00	13.50	25		CLEAR TOOLS FROM CATWALK AND CLEAN UP FLOOR / BRING NEW TOOLS TO CATWALK
13:30	13:45	0.25	13.75	21	SAFETY MEETING	SAFETY MEETING W/ BAKER HUGHES INTEQ
13:45	16:30	2.75	16.50	20	DIR. WORK	DIRECTIONAL WORK , PICK UP VERTITRAC AND ROLLER REAMER / PICK COLLARS BACK UP AND NEW SHOCK SUB
16:30	17:00	0.50	17.00	7	RIG SERVICE	RIG SERVICE , TIE BJ INTO STAND PIPE
17:00	17:15	0.25	17.25	21	SAFETY MEETING	SAFETY MEETING W/ ALL STONEHAM PERSONELLE / BJ PERSONELLE / AND ON-SITE SUPERVISOR ABOUT BJ HELPING US PUMP DOWN HOLE
17:15	18:45	1.50	18.75	20	DIR. WORK	DIRECTIONAL WORK / TEST VERTITRAC
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	20:00	1.00	20.00	25		CHANGE OUT LINERS IN PUMP#2
20:00	22:00	2.00	22.00	6	TRIPS	TRIP IN HOLE
22:00	22:30	0.50	22.50	20	DIR. WORK	DIRECTIONAL WORK DOWN LINK VERTITRAC
22:30	00:00	1.50	24.00	2	DRILL ACTUAL	DRILL 444.5MM HOLE PATTERN BIT F/140M TO 148M

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
Daily Cost Total 113,792.97	Cum Cost To Date 771,807.86
Daily Mud Cost 385.32	Mud Additive Cost To Date 5,145.78
Depth Start (mKB) 115.00	Depth End (mKB) 148.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts	
Job Contact	Mobile
Ian O'leary	709 725 4365
Bill Williams	709 765 1074
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
CAUSTIC	47.91	2.0
GEL	19.30	15.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	
00:00	Safety Meeting	HOUSE KEEPING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/11/2010
Report #: 15.0, DFS: 2.63
Depth Progress: 33.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #2, Drilling Assembly												
Bit Run	Drill Bit		Length (m)	IADC Bit Dull			TFA (incl Noz) (mm ²)	BHA ROP...				
2	444.5mm, T44, LW5823		0.47	3-3-BT-M-F-3.00-CI-TD			848	4.7				
Nozzles (mm)			String Length (m)			OD (mm)						
17.5/17.5/17.5/12.7			562.43			420.0						
String Components												
REED T44, NB STAB, FLOAT SUB, DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	140.00	148.00	8.00	1.50	5.3	2.500	10	1	7,900			0.0



Daily Drilling

Report for: 9/12/2010
 Report #: 16.0, DFS: 3.63
 Depth Progress: 134.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 5	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING AHEAD @ 310 m		Operations Next Report Period DRILL AHEAD	

Operations Summary
 DRILLED 444.5 mm HOLE FROM 148 m. TO 274 m.

Morning Tour Notes:

CHECK CROWN SAVER @ 20:00 HRS
 CHECKED DIVERTER SYSTEM BRAKE LINKAGE PINS
 JTS REVIEW 2-E MOUSEHOLE CONNECTION WITH DC 6-4 WORKING ON MONKEY BOARD

Day Tour Notes:

CHECKED BOTH CROWN SAVERS @ 730 HRS
 CHECKED BRAKES AND LINKAGES
 CHECKED DIVERTER SYSTEM
 F/T FLARE TANK IGNITER

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 444.5mm HOLE F/148m - 162m
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 HCR 3SEC OPEN CLOSE
02:00	06:45	4.75	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/162m - 188m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	09:30	2.50	9.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 188m - 199m
09:30	09:45	0.25	9.75	5	COND MUD & CIRC	CIRCULATE HOLE CLEAN PRIOR TO REPOSITIONING BJ INTO STANDPIPE
09:45	10:30	0.75	10.50	25		REPOSITION BJ TIE IN ON STANDPIPE DUE TO VIBRATION
10:30	11:30	1.00	11.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 199m - 202m
11:30	12:00	0.50	12.00	5	COND MUD & CIRC	CIRCULATE HOLE CLEAN PRIOR TO CONNECTION / HOLE LOADING UP WITH CUTTINGS
12:00	15:30	3.50	15.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 202m - 230m
15:30	15:45	0.25	15.75	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , F/T ANNULAR < 32 SEC TO CLOSE >
15:45	16:45	1.00	16.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 230m - 243m
16:45	17:00	0.25	17.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
17:00	23:30	6.50	23.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 243m - 270M
23:30	23:45	0.25	23.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T H.C.R 3SEC OPEN F/T CROWN SAVER AND RESET
23:45	00:00	0.25	24.00	2	DRILL ACTUAL	DRILL 444.5MM HOLE F/270M- 274M

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
Daily Cost Total 110,813.38	Cum Cost To Date 882,621.24
Daily Mud Cost 1,398.23	Mud Additive Cost To Date 6,544.01
Depth Start (mKB) 140.00	Depth End (mKB) 274.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	47.91	2.0
GEL	19.30	15.0
CAUSTIC	47.91	1.0
GEL	19.30	50.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	MOUSEHOLE CONNECTIONS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #2, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
2	444.5mm, T44, LW5823	0.47	3-3-BT-M-F-3.00-CI-TD	848	4.7

Nozzles (mm)	String Length (m)	OD (mm)
17.5/17.5/17.5/12.7	562.43	420.0

String Components
 REED T44, NB STAB, FLOAT SUB, DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	140.00	202.00	70.00	11.50	6.2		10	1	8,000			0.0
Original Hole	202.00	274.00	142.00	22.75	6.4	3.000	20	1	13,500			0.0



Daily Drilling

Report for: 9/13/2010
 Report #: 17.0, DFS: 4.63
 Depth Progress: 108.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) -2	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING AHEAD @ m		Operations Next Report Period DRILL AHEAD	

Operations Summary
 DRILLED 444.5 mm HOLE FROM 274 m. TO 382 m.

Morning Tour Notes:

CHECKED BRAKE LINKAGE PINS DEADMAN ANCHOR
 F/T CROWN SAVER@0400HR JTA REVIEW 2-A HOUSE KEEPING 2-C RIG TONG OPERATION
 CHECKED ELECTRONIC CROWN SAVER @ 715 HRS

Day Tour Notes:

CHECKED BRAKES AND LINKAGES
 F/T FLARE TANK IGNITER

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 HOLE F/274m - 298m
03:30	03:45	0.25	3.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T ANNULAR 32 SEC CLOSE OPEN
03:45	06:45	3.00	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 298m - 311m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	PRE-JOB SAFETY CREW HANDOVER
07:00	09:30	2.50	9.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 311m - 325m
09:30	09:45	0.25	9.75	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL W/ CREW , ALL ON-SITE PERSONNELLE REPORTED TO MUSTER AREA
09:45	11:30	1.75	11.50	5	COND MUD & CIRC	CIRCULATE TO ALLOW BJ TO CHECK OUT INSIDE OF PUMP
11:30	12:00	0.50	12.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 325m - 328m
12:00	17:30	5.50	17.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 328m - 352m
17:30	17:45	0.25	17.75	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , F/T ANNULAR < 35 SEC TO CLOSE >
17:45	18:45	1.00	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 352m - 355m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 355m -382M

355.00mKB, 9/13/2010 00:00

Type Gel-Chem	Time 00:00	Depth (mKB) 355.00	Density (kg/m³) 1110.0	Funnel Viscosity (s/L) 84	PV Override (cp) 46.0	YP Override (Pa) 18,000
Gel 10 sec (Pa) 8,000	Gel 10 min (Pa) 9,000	Filtrate (mL/30min) 12.0	Filter Cake (mm) 1.0	pH 10.5	Sand (%) 10.5	Solids (%) 6.8
MBT (kg/m³) 42	Alkalinity (mL/mL) 100.000	Chlorides (mg/L) 20.000	Calcium (mg/L) 20.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
Whole Mud Added (m³) 11.90	Mud Lost to Hole (m³) 11.90	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 36.60	Active Mud Volume (m³) 39.60		

BHA #2, Drilling Assembly

Bit Run 2	Drill Bit 444.5mm, T44, LW5823	Length (m) 0.47	IADC Bit Dull 3-3-BT-M-F-3.00-CI-TD	TFA (incl Noz) (mm²) 848	BHA ROP... 4.7
Nozzles (mm) 17.5/17.5/17.5/12.7	String Length (m) 562.43	OD (mm) 420.0			
String Components REED T44, NB STAB, FLOAT SUB, DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
Comment					

AFE Number	Total AFE Amount
Daily Cost Total 46,625.83	Cum Cost To Date 929,247.07
Daily Mud Cost 1,273.23	Mud Additive Cost To Date 7,817.24
Depth Start (mKB) 274.00	Depth End (mKB) 382.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	38.41	3.0
GEL	19.30	55.0
GEL	19.30	5.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	B.O.P. DRILL W/ DIVERter OPS
00:00	Safety Meeting	INCIDENTS REPORT SAFETY LEADERSHIP

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/13/2010
Report #: 17.0, DFS: 4.63
Depth Progress: 108.00

Well Name: NALCOR ET.AL FINNEGAN #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	274.00	328.00	196.00	32.25	5.7	3.000	18	1	15,700			0.0
Original Hole	328.00	382.00	250.00	43.75	4.7	3.000	20	1	17,000			0.0



Daily Drilling

Report for: 9/14/2010
 Report #: 18.0, DFS: 5.63
 Depth Progress: 88.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 4	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING AHEAD @ 500 m		Operations Next Report Period DRILL AHEAD	
Operations Summary DRILLED 444.5 mm HOLE FROM 382 m. TO 470 m.			

Morning Tour Notes:

CHECKED BRAKE LINKAGE PINS DIVERter SYSTEM F/T FLARE IGNITER
 JTA REVIEW 6-A SETTING AND PULLING SLIPS 2-D MOUSEHOLE CONNECTION WITH D.P
 F/T CROWN SAVER @ 230 HRS

Day Tour Notes:

CHECKED BOTH CROWN SAVERS @ 930 HRS
 CHECKED BRAKES AND LINKAGES
 CHECKED DIVERter SYSTEM AND GUT LINE
 F/T FLARE TANK IGNITER
 CHECKED DRIVE LINE BOLTS

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:15	2.25	2.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/382m - 393m
02:15	02:30	0.25	2.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER AND RESET F/T H.C.R 3SEC OPEN CLOSE
02:30	06:45	4.25	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/393m - 412m
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 444.5mm HOLE F/ 412m - 431m
12:00	13:00	1.00	13.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 431m - 435m
13:00	13:15	0.25	13.25	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , F/T ANNULAR < 35 SEC TO CLOSE >
13:15	14:00	0.75	14.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 435m - 436m
14:00	14:45	0.75	14.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN
14:45	15:15	0.50	15.25	25		CHANGE OUT NIPPLE IN STANDPIPE WHERE BJ CEMENT PUMP IS TIED IN
15:15	18:45	3.50	18.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 436m - 448m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 448m - 470M

449.00mKB, 9/14/2010 00:00

Type Gel-Chem	Time 00:00	Depth (mKB) 449.00	Density (kg/m³) 1100.0	Funnel Viscosity (s/L) 74	PV Override (cp) 44.0	YP Override (Pa) 16.500
Gel 10 sec (Pa) 9.000	Gel 10 min (Pa) 9.000	Filtrate (mL/30min) 10.0	Filter Cake (mm) 1.0	pH 10.0	Sand (%)	Solids (%) 6.2
MBT (kg/m³) 42	Alkalinity (mL/mL)	Chlorides (mg/L) 200.000	Calcium (mg/L) 40.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 9.000
Whole Mud Added (m³) 21.00	Mud Lost to Hole (m³) 13.00	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 25.60	Active Mud Volume (m³) 111.80		

AFE Number	Total AFE Amount
Daily Cost Total 81,446.99	Cum Cost To Date 1,010,694.06
Daily Mud Cost 1,419.59	Mud Additive Cost To Date 9,236.83
Depth Start (mKB) 382.00	Depth End (mKB) 470.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
CAUSTIC	38.41	3.0
DUO VIS	99.09	4.0
GEL	19.30	20.0
LIGNITE	34.00	4.0
GEL	19.30	20.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	SETTING AND PULLING SLIPS
00:00	Safety Meeting	RIG SERVICE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/14/2010
 Report #: 18.0, DFS: 5.63
 Depth Progress: 88.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #2, Drilling Assembly													
Bit Run	Drill Bit		Length (m)	IADC Bit Dull			TFA (incl Noz) (mm²)	BHA ROP...					
2	444.5mm, T44, LW5823		0.47	3-3-BT-M-F-3.00-CI-TD			848	4.7					
Nozzles (mm)			17.5/17.5/17.5/12.7		String Length (m)		562.43		OD (mm)				420.0
String Components REED T44, NB STAB, FLOAT SUB, DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	382.00	431.00	299.00	55.25	4.3	3.800	20	1	17,900			0.0	
Original Hole	431.00	470.00	338.00	65.50	3.8	3.800	21	1	17,800			0.0	



Daily Drilling

Report for: 9/15/2010
 Report #: 19.0, DFS: 6.63
 Depth Progress: 86.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 4	Road Condition FAIR	Hole Condition GOOD

Operations at Report Time: DRILLING AHEAD TO SCP
 Operations Next Report Period: TD & RUN SURFACE CSG

Operations Summary
 DRILLED 444.5 mm HOLE FROM 470m. TO 556 m.

Morning Tour Notes:
 CHECKED BRAKE LINKAGE PINS DEADMAN ANCHOR F/T CROWN SAVER@1900HR
 CHECKED DIVERter SYSTEM F/T FLARE IGNITER
 J.T.A REVIEW 7-1 RIG SERVICE 2-C RIG TONG OPERATIONS
 Day Tour Notes:
 F/T CROWN SAVER/CHECK BRAKE LINKAGES/FUNCTION FLARE IGNITOR/CHECK DIVERter SYSTEM
 REVIEWED JTA #2-B CATWALK OPERATIONS/2-D MOUSE HOLE CONNECTIONS WITH DP/6-A SETTING AND
 PULLING SLIPS

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/470M- 476M
01:30	01:45	0.25	1.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED OIL LEVELS F/T H.C.R 3 SEC OPEN CLOSE F/T CROWN SAVER&RESET
01:45	06:45	5.00	6.75	2	DRILL ACTUAL	DRILL 444.5MM HOLE F/476M- 495M
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 444.5MM HOLE F/495M-514M
12:00	13:15	1.25	13.25	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 514m - 517m
13:15	13:30	0.25	13.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS CHECK DRIVELINE BOLTS ON PUMP MOTORS
13:30	18:45	5.25	18.75	2	DRILL ACTUAL	CONT TO DRILL 444.5mm HOLE F/ 517m - 537m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HAND OVER
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	CONT TO DRILL 444.5mm HOLE F/ 537m - 556m

540.00mKB, 9/15/2010 00:00

Type Gel-Chem	Time 00:00	Depth (mKB) 540.00	Density (kg/m³) 1100.0	Funnel Viscosity (s/L) 65	PV Override (cp) 36.0	YP Override (Pa) 14.000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 5.000	Filtrate (mL/30min) 9.0	Filter Cake (mm) 1.0	pH 9.5	Sand (%) 0.0	Solids (%) 6.2
MBT (kg/m³) 42	Alkalinity (mL/mL)	Chlorides (mg/L) 200.000	Calcium (mg/L) 40.000	Pf (mL/mL) 0.400	Pm (mL/mL) 0.500	Gel 30 min (Pa)
Whole Mud Added (m³) 14.00	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 25.60	Active Mud Volume (m³)		

BHA #2, Drilling Assembly

Bit Run 2	Drill Bit 444.5mm, T44, LW5823	Length (m) 0.47	IADC Bit Dull 3-3-BT-M-F-3.00-CI-TD	TFA (incl Noz) (mm²) 848	BHA ROP... 4.7	
Nozzles (mm) 17.5/17.5/17.5/12.7	String Length (m) 562.43	OD (mm) 420.0				

String Components
 REED T44, NB STAB, FLOAT SUB, DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	470.00	514.00	382.00	77.00	3.8	3.800	26	1	18,100			0.0
Original Hole	514.00	556.00	424.00	88.50	3.7	3.800	26	1	19,600			0.0

AFE Number	Total AFE Amount
Daily Cost Total 77,524.69	Cum Cost To Date 1,088,218.75
Daily Mud Cost 903.92	Mud Additive Cost To Date 10,140.75
Depth Start (mKB) 470.00	Depth End (mKB) 556.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts

Job Contact	Mobile
Ian Oleary	709 725 4365
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	38.41	2.0
LIGNITE	34.00	4.0
GEL	19.30	12.0
LIGNITE	34.00	5.0
GEL	19.30	15.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MOUSE HOLE CONNECTIONS
00:00	Safety Meeting	LAY DOWN BHA

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/16/2010
 Report #: 20.0, DFS: 7.63
 Depth Progress: 16.00

Well Name: NALCOR ET.AL FINNEGAN #1

556.00mKB, 9/16/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel-Chem	00:00	556.00	1130.0	65	36.0	14.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
6.000	5.000	9.0	1.0	9.5	0.0	6.2
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
42		200.000	40.000	0.400	0.500	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
14.00			25.60	125.00		

BHA #2, Drilling Assembly

Bit Run	Drill Bit	Length (m)	ADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
2	444.5mm, T44, LW5823	0.47	3-3-BT-M-F-3.00-CI-TD	848	4.7
Nozzles (mm)	String Length (m)		OD (mm)		
17.5/17.5/17.5/12.7	562.43		420.0		

String Components

REED T44, NB STAB, FLOAT SUB, DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	556.00	572.00	440.00	94.25	2.8	3.800	28	1	21,500			0.0



Daily Drilling

Report for: 9/16/2010
Report #: 20.0, DFS: 7.63
Depth Progress: 16.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST & RAIN	Temperature (°C) 10	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time RIG TO RUN CASING		Operations Next Report Period RUN CASING AND CEMENT	

Operations Summary
 DRILLED 444.5 mm HOLE FROM 556m. TO 572 m. CIRCULATED HOLE CLEAN.PULLED OUT OF HOLE FOR WIPER TRIP. LAYED OUT VERTITRACK TOOL, MADE UP BIT AND RAN IN HOLE FOR WIPER TRIP, HOLE COND GOOD

CHECKED CROWN SAVER @ 0045 HRS
 CHECKED BRAKES AND LINKAGES
 F/T FLARE TANK IGNITER
 CHECKED DIVERTER SYSTEM
 DRILL PIPE COUNT - 15 IN HOLE , 241 ON RACKS , 256 TOTAL JONITS
 SHUT DOWN PUMP FOR 15 MIN AND HAD 2m FILL ON BOTTOM

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 444.5mm HOLE F/ 556m - 558m
00:45	01:00	0.25	1.00	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , F/T ANNULAR < 35 SEC TO CLOSE >
01:00	01:30	0.50	1.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 558m - 559m
01:30	02:00	0.50	2.00	25		CHANGE HEAD IN #1 MUD PUMP SUMP SIDE
02:00	03:30	1.50	3.50	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 559m - 562m
03:30	04:00	0.50	4.00	25		TEAR APART MUD PUMP TO CHECK OUT VALVES / CHANGE 2 VALVES AND 1 SEAT
04:00	06:45	2.75	6.75	2	DRILL ACTUAL	DRILL 444.5mm HOLE F/ 562m - 569m
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 444.5mm HOLE F/ 569m - 572m
07:15	08:30	1.25	8.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
08:30	09:00	0.50	9.00	25		TROUBLE SHOOT PUMP # 2 AND REPAIR SPRING
09:00	09:45	0.75	9.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
09:45	11:45	2.00	11.75	25		CONT WORKING ON PUMP # 2 / CHANGE OUT SPRING AND SEARCH FOR JUNK CAUSING SPRING DAMAGE
11:45	12:00	0.25	12.00	6	TRIPS	ATTEMPT TO TRIP OUT OF HOLE F/C @ 554m ENCOUNTERED GAS BUBBLES WENT BACK TO BOTTOM
12:00	12:30	0.50	12.50	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
12:30	12:45	0.25	12.75	21	SAFETY MEETING	SAFETY MEETING
12:45	18:45	6.00	18.75	6	TRIPS	TRIP OUT OF HOLE WITH F/C @ 554m/361m LAYING OUT 2 9\ DRILL COLLARS AND ALL 9\ TOOLS
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HAND OVER MEETING
19:00	21:00	2.00	21.00	6	TRIPS	CONT TO LAY OUT 9\ TOOLS MEAS 9.4m 3 CALC 7.9 m3 DIFF 1.46m3
21:00	21:30	0.50	21.50	25		CLEAR OFF CATWALK TO MAKE ROOM TO GET NEW TOOLS ON THERE
21:30	23:45	2.25	23.75	6	TRIPS	MAKE UP BHA AND TRIP IN HOLE , WASH LAST 2 SINGLES TO BOTTOM < 1.5m OF FILL >
23:45	00:00	0.25	24.00	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED OIL LEVELS

AFE Number	Total AFE Amount
Daily Cost Total 97,238.99	Cum Cost To Date 1,185,457.74
Daily Mud Cost 511.59	Mud Additive Cost To Date 10,652.34
Depth Start (mKB) 556.00	Depth End (mKB) 572.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String	

Daily Contacts

Job Contact	Mobile
Ian Oleary	709 725 4365
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s... Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CAUSTIC	38.41	3.0
DUO VIS	99.09	4.0
BARITE	0.00	30.0
HALLIBURTON		

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MAKE UP BHA
00:00	Safety Meeting	TRIPPING OUT OF HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/17/2010
Report #: 21.0, DFS: 8.63
Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #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 Tg
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Daily Drilling

Report for: 9/17/2010
 Report #: 21.0, DFS: 8.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 12	Road Condition FAIR	Hole Condition CASED

Operations at Report Time
WAIT ON CEMENT

Operations Next Report Period
WAIT ON CEMENT & NIPPLE UP

Operations Summary
 CIRCULATED HOLE CLEAN. PULLED OUT OF HOLE.RIGGED IN WEATHERFORD CASING RUNNING CREW AND HELD SAFETY MEETING. RAN SURFACE CASING.
 HELD SAFETY MEETING WITH BJ CEMENTERS AND RIGGEG IN CEMENT LINES.

PRESSURE TEST SURFACE LINES to 13,500 kpa AND CEMENTED CASING.
 RAN 44 JOINTS, 339.5 mm, K-55, 81.12 kg/m CASING. LANDED @ 570 mkb.
 PUMPED - 8 m3 PREFLUSH, 74.6 ton CLASS G CEMENT, YIELD .757 m3/t, 56.5 m3 1901 kg/m3,
 DISPLACED WITH 45 m3 WATER. BUMP PLUG TO 9000 KPA. FLOATS HELD, ANNULAS STATIC. 13 m3 GOOD CEMENT RETURNS TO SURFACE.
 RIGGED OUT CEMENTERS AND WAIT ON CEMENT.

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	CONDITION MUD & CIRCULATE HOLE CLEAN PRIOR TO P.O.O.H. TO RUN CASING
01:30	05:15	3.75	5.25	6	TRIPS	TRIP OUT OF HOLE W/ 10 MIN FLOW CHECKS @ 561m , 312m & O.O.H. , LAYDOWN NB STAB AND FLOAT SUB
05:15	05:30	0.25	5.50	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OILS
05:30	06:45	1.25	6.75	23	WAITING ON	W/O THIRD PARTY PERSONNEL / TONG HANDS
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	SAFETY MEETING W/ TONG HANDS
07:15	09:30	2.25	9.50	12	RUN CASING AND CEMENT	RIG UP TONG HANDS TO RUN CASING
09:30	09:45	0.25	9.75	21	SAFETY MEETING	SAFETY MEETING WITH TONG HANDS
09:45	12:00	2.25	12.00	12	RUN CASING AND CEMENT	RUN 339.7mm CASING
12:00	17:15	5.25	17.25	12	RUN CASING AND CEMENT	CONTINUE TO RUN 339mm CASING TO 572m
17:15	18:45	1.50	18.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER MEETING
19:00	19:15	0.25	19.25	21	SAFETY MEETING	SAFETY MEETING WITH BJ CEMENTERS AND ALL ON-SITE PERSONELLE
19:15	22:00	2.75	22.00	12	RUN CASING AND CEMENT	RIG TO AND CEMENT 339mm SURFACE CASING WITH BJ CEMENTERS
22:00	00:00	2.00	24.00	13	WAIT ON CEMENT	WAIT ON CEMENT

570.00mKB, 9/17/2010 19:00

Type Gel Chem	Time 19:00	Depth (mKB) 570.00	Density (kg/m³) 1110.0	Funnel Viscosity (s/L) 62	PV Override (cp) 32.0	YP Override (Pa) 13.000
Gel 10 sec (Pa) 7.000	Gel 10 min (Pa) 5.000	Filtrate (mL/30min) 10.5	Filter Cake (mm) 1.0	pH 9.5	Sand (%) 0.0	Solids (%) 6.8
MBT (kg/m³) 42	Alkalinity (mL/mL) 150.000	Chlorides (mg/L) 40.000	Calcium (mg/L) 0.300	Pf (mL/mL) 0.400	Pm (mL/mL) 0.400	Gel 30 min (Pa)

Whole Mud Added (m³) 5.00	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 25.60	Active Mud Volume (m³) 185.00
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Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
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Nozzles (mm)	String Length (m)	OD (mm)
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String Components

Comment

AFE Number	Total AFE Amount
Daily Cost Total 266,144.99	Cum Cost To Date 1,451,602.73
Daily Mud Cost	Mud Additive Cost To Date 10,652.34
Depth Start (mKB) 572.00	Depth End (mKB) 572.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Bill Williams	709 765 1074
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	RUNNING CASING
00:00	Safety Meeting	NIPPLE DOWN DIVERTER

Wellbores	
Wellbore Name	KO.MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/18/2010
 Report #: 22.0, DFS: 9.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 10	Road Condition FAIR	Hole Condition CASED
Operations at Report Time NIPPLE UP STACK		Operations Next Report Period NIPPLE UP AND PRSSURE TEST	

Operations Summary
 Time log comments:
 WAIT ON CEMENT, NIPPLE DOWN DIVERTER & CUT CASING, WELD ON BOWL, FAILED PRESSURE TEST, REPAIR, PRESSURE TEST TO 1000 PSI & PASS, NIPPLE UP STACK. CONTINUE CLEANING TANKS & STRIPPING MUD TO PREPARE KLAY SHIELD.

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:45	6.75	6.75	13	WAIT ON CEMENT	CONTINUE TO WAIT ON CEMENT
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	08:00	1.00	8.00	13	WAIT ON CEMENT	CONTINUE TO WAIT ON CEMENT
08:00	10:30	2.50	10.50	14	NIPPLE UP B.O.P.	NIPPLE DOWN DIVERTER SYSTEM
10:30	12:00	1.50	12.00	25		CUT CASING AND DIVERTER FLANGE
12:00	18:45	6.75	18.75	25		CONTINUE TO CUT AND PREP CASING AND WELD ON BOWL
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER MEETING
19:00	00:00	5.00	24.00	25		WAIT ON CASING BOWL TO COOL DOWN , TEST AND FAIL , RE-WELD DUE TO LEAKS DURING TEST

570.00mKB, 9/18/2010 00:00

Type Gel Chem	Time 00:00	Depth (mKB) 570.00	Density (kg/m³) 1100.0	Funnel Viscosity (s/L) 54	PV Override (cp) 23.0	YP Override (Pa) 3.000
Gel 10 sec (Pa) 4.000	Gel 10 min (Pa) 4.000	Filtrate (mL/30min) 15.0	Filter Cake (mm) 1.0	pH 11.0	Sand (%) 7.2	Solids (%) 7.2
MBT (kg/m³) 35	Alkalinity (mL/mL)	Chlorides (mg/L) 200.000	Calcium (mg/L) 160.000	Pf (mL/mL) 1.400	Pm (mL/mL) 2.300	Gel 30 min (Pa)
Whole Mud Added (m³) 0.00	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 25.60	Active Mud Volume (m³) 145.00		

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 To

AFE Number	Total AFE Amount
Daily Cost Total 51,276.00	Cum Cost To Date 1,502,878.73
Daily Mud Cost 275.30	Mud Additive Cost To Date 10,927.64
Depth Start (mKB) 572.00	Depth End (mKB) 572.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...) 279.0
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
SODIUM BI CARB	27.53	10.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HOT WORK
00:00	Safety Meeting	NIPPLE UP B.O.P.

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/19/2010
 Report #: 23.0, DFS: 10.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 11	Road Condition FAIR	Hole Condition CASED
Operations at Report Time PRESSURE TESTING		Operations Next Report Period FINISH PRESSURE TEST, PICK UP TOOLS, RUN IN, DRILL OUT, FORMATION TEST, DRILL AHEAD	

AFE Number	Total AFE Amount
Daily Cost Total 73,317.70	Cum Cost To Date 1,576,196.43
Daily Mud Cost 1,315.70	Mud Additive Cost To Date 12,243.34
Depth Start (mKB) 572.00	Depth End (mKB) 572.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00

Operations Summary
 Morning Tour Notes:
 REVIEWED JTA # 15-1 PRESSURE TESTING
 NIPPLE UP, PRESSURE TEST, CHANGE LOWER PIPE RAM SEALS & PRESSURE TEST
 PRE MIXING KLA SHIELD

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	25		CONTINUE TO TEST CASING BOWL WELDS AND RE-WELD
01:15	01:30	0.25	1.50	21	SAFETY MEETING	SAFETY MEETING ON NIPPLE UP BLOW OUT PREVENTER
01:30	06:45	5.25	6.75	14	NIPPLE UP B.O.P.	NIPPLE UP BOPS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	12:00	5.00	12.00	14	NIPPLE UP B.O.P.	CONTINUE TO NIPPLE UP BOPS
12:00	14:45	2.75	14.75	14	NIPPLE UP B.O.P.	CONTINUE TO NIPPLE UP BOPS
14:45	15:00	0.25	15.00	21	SAFETY MEETING	SAFETY MEETING REVIEWED JTA # 15-1 PRESSURE TESTING B.O.P
15:00	18:45	3.75	18.75	15	TEST B.O.P.	PRESSURE TEST TEST # 1 SPOOL VALVE 21000KPA/TEST # 2 CASING 15100/# 3 UPPER PIPE RAMS/INSIDE KILL VALVE/HYDRAULI HCR VALVE 21000 KPA HIGH 1500 KPA LOW/TEST# 4 ANNULAR/OUTSIDE KILL VALVE/MANUAL HCR TO 21000 KPA HIGH 1500 KPA LOW
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER
19:00	00:00	5.00	24.00	15	TEST B.O.P.	CONTINUE PRESSURE TEST #5 LOWER PIPE RAMS TO 21,000 HIGH AND 1500 KPA LOW FOR 15MINS ,RE-TEST 2 TIMES , CHANGE OUT LOWER PIPE RAM RUBBERS DUE TO NO GOOD TEST , RE-TEST AGAIN AND ALL GOOD

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
GEL CHEM	14:00	570.00	1120.0	52	22.0	3.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
4.000	10.000	14.0	1.0	10.5	0.0	6.8
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
35		200.000	160.000	1.300	2.100	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
0.00			25.60	65.00		

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

Last Casing String
Surface, 570.00mKB

Job Contact	Mobile
Tim Kennedy	780 913 1869
Ian O'leary	709 725 4365
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
279.0		
Pres (kPa)	Slow Spd	Strokes (s...)
No		Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
SODIUM BI CARB	27.53	1.0
DUO VIS	99.09	13.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	PRESSURE TESTING
00:00	Safety Meeting	PRESSURE TESTING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/20/2010
 Report #: 24.0, DFS: 11.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
12:30	14:00	1.50	14.00	14	NIPPLE UP B.O.P.	INSTALL FLOW NIPPLE AND FLOW LINE/PICK UP MOUSEHOLE/PICK UP 9\ TONGS TO MAKE UP BHA
14:00	14:15	0.25	14.25	21	SAFETY MEETING	SAFETY MEETING WITH DIRECTIONAL HANDS
14:15	17:45	3.50	17.75	20	DIR. WORK	DIRECTIONAL WORK PICK UP BHA
17:45	18:45	1.00	18.75	6	TRIPS	TRIP IN HOLE TO 72m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER
19:00	20:45	1.75	20.75	6	TRIPS	CONTINUE TRIP IN HOLE LAYING OUT 2 11\ DRILL COLLARS
20:45	21:00	0.25	21.00	20	DIR. WORK	DIRECTIONAL WORK , PLUSE TEST VERTITRAK
21:00	21:15	0.25	21.25	15	TEST B.O.P.	ACCUMULATOR FUNCTION TEST /PRECHARGE PRESSURE 7000KPA / START PRESSURE 21000KPA / CLOSE ANNULAR 32 SECOND TO CLOSE , REMAINING PRESSURE 12000KPA / CLOSE UPPER PIPE RAMS 7 SECOND TO CLOSE , REMAINING PRESSURE 11200KPA / CLOSE LOWER PIPE RAMS 7 SECONDS TO
21:15	21:30	0.25	21.50	15	TEST B.O.P.	CLOSE , REMAINING PRESSURE 10300KPA / CLOSE HCR VALVE 3 SECONDS TO CLOSE , REMAINING PRESSURE 10000KPA / TIME TO REBUILD PRESSURE 1 MINUTE 32 SECONDS
21:30	22:00	0.50	22.00	6	TRIPS	CONTINUE TO TRIP IN HOLE
22:00	22:15	0.25	22.25	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL HELD WITH CREW PRIOR TO DRILL , DISCUSSED CREW DUTIES AND LINED UP MANIFOLD AND B.O.P. VALVES
22:15	00:00	1.75	24.00	2	DRILL ACTUAL	DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE / TAG CEMENT @ 554m / RUBBER PLUGS @ 556.40m

570.00mKB, 9/20/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	00:00	570.00	1120.0	52	22.0	3.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
4.000	4.000	14.0	1.0	10.5	0.0	6.8
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
35		200.000	160.000	1.300		5.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
			25.60	177.50		

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: 9/20/2010
Report #: 24.0, DFS: 11.63
Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 13	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 5 METERS OF HOLE FOR LEAKOFF TEST		Operations Next Report Period LEAK OFF TEST THEN DRILLING 12.25 HOLE	
Operations Summary COMPLETE PRESSURE TESTING BOP'S, CHOKE MANIFOLD AND RELATED WELL CONTROL EQUIPMENT. TEST PLUG INSTALLED. PRESSURE TEST # 1 - SPOOL VALVE AND TEST LINE. 1500 kpa LOW - 21000 kpa HIGH - 10 min - OK PRESSURE TEST # 2 - CASING TO 15100 kpa 10 min - OK. PRESSURE TEST # 3 - UPPER PIPE RAMS, INSIDE KILL VALVE AND HCR VALVE.1500 kpa LOW - 21000 kpa HIGH. 10 min - OK - ANNULAR PREVENTOR, OUTSIDE KILL VALVE AND MANUAL HCR VALVE. 1500 KPA LOW - 21000 kpa HIGH. 10 min - OK PRESSURE TEST # 5. - LOWER PIPE RAMS. TEST FAILED. INSTALLED NEW RAM RUBBERS. RETEST 1500 kpa LOW, 21000 kpa HIGH - 15 min - OK. PRESSURE TEST # 6 - BLIND RAMS , KILL LINE CHECK VALVE AND 4 CHOKE MANIFOLD VALVES.1500 kpa LOW, 21000 kpa HIGH - 15 min - OK. PRESSURE TEST # 7 - 4 CHOKE MANIFOLD VALVES, 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. PRESSURE TEST # 8 - 2 CHOKE MANIFOLD VALVES AND 2 CHOKES 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. PRESSURE TEST # 9 - 5 CHOKE MANIFOLD VALVES. 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. PRESSURE TEST # 10 - 1 CHOKE MANIFOLD VALVE. 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. PRESSURE TEST # 11 - 1 CHOKE MANIFOLD VALVE. 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. PRESSURE TEST # 12 - INSIDE BOP. 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. PRESSURE TEST # 13 - STABBING VALVE. 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. PRESSURE TEST # 14 - LOWER KELLY VALVE. 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. PRESSURE TEST # 15 - UPPER KELLY VALVE. 1500 kpa LOW 21000 kpa HIGH, 15 min - FAIL. REPLACE VALVE , RETEST - OK PRESSURE TEST # 16 - STANDPIPE, KILL LINE, 1500 kpa LOW 21000 kpa HIGH, 15 min - OK. SET WEAR BUSHING. INSTALL FLOW NIPPLE AND MADE UP BIT. TOOLS.			

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:00	2.00	2.00	15	TEST B.O.P.	PRESSURE TEST BOP'S / TEST #6 BLIND RAMS , CHECK VALVE ON KILL LINE AND 4 MANIFOLD VALVES TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINS EACH , TEST #7 4 MANIFOLD VALVES TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINS EACH
02:00	03:00	1.00	3.00	15	TEST B.O.P.	PRESSURE TEST BOP'S / TEST #8 2 MANIFOLD VALVES AND 2 CHOKES TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINUTES EACH , TEST #9 / 5 MANIFOLD VALVES TO 1500 LOW AND 21000KPA HIGH FOR 15 MINUTES EACH
03:00	05:00	2.00	5.00	15	TEST B.O.P.	PRESSURE TEST BOP'S / TEST #10 / 1 MANIFOLD VALVE TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINUTES EACH , TEST #11 / 1 MANIFOLD VALVE TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINUTES EACH , TEST #12 INSIDE B.O.P. TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINUTE EACH
05:00	06:45	1.75	6.75	15	TEST B.O.P.	PRESSURE TEST BOP'S / TEST #13 / STABBING VALVE TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINUTES EACH , TEST #14 LOWER KELLY VALVE TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINUTES EACH ,ATTEMPT TEST #15 UPPER KELLY VALVE TO 1500 LOW AND 21000 KPA HIGH FOR 15 MI
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	08:00	1.00	8.00	15	TEST B.O.P.	CHANGE OUT UPPER KELLY VALVE
08:00	09:15	1.25	9.25	25		CHANGE OUT WASH PIPE AND PACKING
09:15	11:45	2.50	11.75	15	TEST B.O.P.	PRESSURE TEST BOP'S / RE-TEST # 15 , TEST # 16 MUD LINE BACK TO PUMPS AND KILL LINE TO 1500 LOW AND 21000 KPA HIGH FOR 15 MINS EACH
11:45	12:00	0.25	12.00	25		SET WEAR BUSHING
12:00	12:30	0.50	12.50	25		INSTALL WEAR BUSHING

AFE Number		Total AFE Amount	
Daily Cost Total 66,558.34		Cum Cost To Date 1,642,754.77	
Daily Mud Cost 1,817.34		Mud Additive Cost To Date 14,060.68	
Depth Start (mKB) 572.00		Depth End (mKB) 572.00	
Target Formation Aguathuna		Target Depth (mKB) 3,250.00	
Last Casing String Surface, 570.00mKB			
Daily Contacts			
Job Contact		Mobile	
Bill Williams		709 765 1074	
Ian O'leary		709 725 4365	
Tim Kennedy		780 913 1869	
STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.		Rig Number 11	
Rig Supervisor Martin Gould		Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			
Mud Additive Amounts			
Description		Cost (/unit)	Consumed
DUO VIS		99.09	2.0
POLYPAC UL		134.93	12.0
Safety Checks			
Time	Type	Description	
12:00	Safety Meeting	PICKING UP DIRECTIONAL TOOLS	
00:00	Safety Meeting	B.O.P. DRILL	
Wellbores			
Wellbore Name		KO MD (mKB)	
Original Hole			



Daily Drilling

Report for: 9/21/2010
 Report #: 25.0, DFS: 12.63
 Depth Progress: 171.00

Well Name: NALCOR ET.AL FINNEGAN #1

645.00mKB, 9/21/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	00:00	645.00	1080.0	58	13.0	11.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
10.000	14.000	9.0	1.0	10.0	0.0	3.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,900.000	160.000	3.000		
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
			41.60	91.00		

BHA #3, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
3	311.0mm, MSI616, JD6659	0.30	1-1-CT-A-X-1.00-FC-PR	361	14.6

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1/9.5	1,028.84	260.0

String Components

SMITH MSI616, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

3*10, 3*12, 3*14 NOZZLES

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												
Original Hole	572.00	592.00	20.00	3.50	5.7		6	133	9,700			0.0
Original Hole	592.00	743.00	171.00	14.75	13.4		12	150	10,500			0.0



Daily Drilling

Report for: 9/21/2010
 Report #: 25.0, DFS: 12.63
 Depth Progress: 171.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 11	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING AHEAD 311 MM HOLE		Operations Next Report Period DRILLING	

Operations Summary
 Morning Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION CROWN SAVER @ 10:00
 CHECK ALL BOP AND MANIFOLD VALVES /FUNCTION FLARE IGNITOR/CHECK STABBING AND INSIDE BOP VALVE/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK
 REVIEWED JTA #6-A SETTING AND PULLING SLIPS/2-D MOUSEHOLE CONNECTIONS WITH DP/14-5 BOP DRILL
 Day Tour Notes:
 CHECK ALL WELL CONTROL EQUIPMENT/CHECK ALL FLOOR EQUIPMENT/VISUALLY INSPECT DERRICK/FUNCTION FLARE IGNITOR
 FUNCTION CROWN SAVER @ 10:00/ CHECK BRAKES AND LINKAGES/
 DRILL PIPE COUNT @ 2400 HRS - 29 IN HOLE , 227 ON RACKS , 305 TOTAL
 REVIEWED JTA # 2-B CATWALK OPERATIONS/6-A SETTING AND PULLING SLIPS/
 CHECKED CROWN SAVER @ 1915 HRS

THE ROUGHNECH THAT HAD HIS FINGER PINCHED (NO BLOOD) BETWEEN THE DRILL COLLARS WHILE TRIPPING. THE TOOL PUSH HAD TAKEN HIM IN TO HAVE IT CHECKED. THE LAST REPORT IS THAT IT WAS SOFT TISSUE DAMAGE AND HE RETURNED TO WORK TO FINISH HIS SHIFT LAST NIGHT.

LEAK OFF TEST WITH BJ TO 11,500 kpa WITH A HYDROSTATIC OF 5592 kpa GIVES US A GRADIENT 29.99 kpa/m

THIS MORNING WE HAVE HAD GAS CUT MUD OF OVER 1500 UNITS, FLOW CHECKS HAS HAD GAS BREAKING OUT ON SURFACE.

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	CONTINUE TO DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE / TAG FLOAT @ 557.10 m / TAG SHOE @ 567.70m
03:45	05:45	2.00	5.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE / TREAT CEMENT WATER PRIOR TO BLENDING INTO MAIN SYSTEM
05:45	06:30	0.75	6.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 572m - 577m
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	08:30	1.75	8.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO LEAK OFF TEST
08:30	09:00	0.50	9.00	16	DRILLSTEM TEST	FORMATION INTEGRITY TEST
09:00	09:15	0.25	9.25	21	SAFETY MEETING	DRILLS/BOP, ETC. /WELL SECURE IN 85 SEC
09:15	12:00	2.75	12.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FR 577m TO 592m
12:00	16:45	4.75	16.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FR 592m - 647m
16:45	17:15	0.50	17.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION LOWER AND UPPER PIPE RAMS 6 SEC TO CLOSE CHANGE OUT SHAKER SCREENS
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 647m - 670m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 670m - 743m

AFE Number	Total AFE Amount
Daily Cost Total 86,806.00	Cum Cost To Date 1,729,560.77
Daily Mud Cost 17,214.98	Mud Additive Cost To Date 31,275.66
Depth Start (mKB) 572.00	Depth End (mKB) 743.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ULTRA CAP	233.72	7.0
KLA STOP	1,233.57	8.0
SODIUM BI CARB	27.53	14.0
ULTRA CAP	233.72	16.0
DUO VIS	99.09	16.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	MOUSE HOLE CONNECTIONS
00:00	Safety Meeting	WORKING IN EXTREME WIND CONDITIONS

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/22/2010
 Report #: 26.0, DFS: 13.63
 Depth Progress: 508.00

Well Name: NALCOR ET.AL FINNEGAN #1

Time Log												
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment						
23:45	00:00	0.25	24.00	25		CHECK OUT FLUID END IN MUD PUMP <LEAK>						
970.00mKB, 9/22/2010 18:00												
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)						
KLA SHIELD	18:00	970.00	1100.0	88	22.0	18.000						
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)						
10.000	12.000	7.0	1.0	10.0	0.0	3.0						
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)						
		2,000.000	200.000	2.700		14.000						
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)								
			51.60	115.00								
BHA #3, Drilling Assembly												
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...							
3	311.0mm, MSI616, JD6659	0.30	1-1-CT-A-X-1.00-FC-PR	361	14.6							
Nozzles (mm)	String Length (m)	OD (mm)										
11.1/11.1/11.1/9.5	1,028.84	260.0										
String Components												
SMITH MSI616, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles												
Comment												
3*10, 3*12, 3*14 NOZZLES												
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												
Original Hole	743.00	894.00	322.00	25.50	14.0		15	140	12,000			0.0
Original Hole	839.00	1,045.00	528.00	33.50	25.8		11	140	14,000			0.0
Original Hole	894.00	1,045.00	679.00	41.50	18.9		11	140	14,000			0.0



Daily Drilling

Report for: 9/22/2010
Report #: 26.0, DFS: 13.63
Depth Progress: 508.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:540.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) 8	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
DRILLING AHEAD WITH NO INCIDENTS OR ACCIDENTS. LOTS OF GAS SPIKES WITH THE HIGHEST TODAY @ 980 M AND 3900 UNITS

Morning Tour Notes:
CHECKED BRAKES AND LINKAGES
CHECKED CROWN SAVER
FUNCTION TEST FLARE TANK IGNITER
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT

Day Tour Notes:
FUNCTION CROWN SAVER @ 7:15
REVIEWED JTA # 2-B CATWALK OPERATIONS/2-C TONG OPERATIONS/2-E MOUSEHOLE CONNECTIONS WITH DRILL PIPE
CHECK BRAKES AND LINKAGES
CHECK ALL WELL CONTROL EQUIPMENT/CHECK ALL FLOOR EQUIPMENT/MUSUALLY INSPECT DERRICK
DRILL PIPE COUNT @ 17:00 210 ON RACKS/46 IN HOLE/256 TOTAL ON LOCATION
DRILL PIPE COUNT @ 2400 HRS - 51 JOINTS IN HOLE , 205 JOINTS ON LOCATION , 305 TOTAL JOINTS < CORRECT >
FUNCTION CROWN SAVER @ 1900 HRS

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 311mm HOLE FROM 743m - 765m
02:00	02:15	0.25	2.25	25		FLOW CHECK / GAS BREAKING OUT OF MUD AT SURFACE
02:15	04:00	1.75	4.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 765m - 784m
04:00	04:15	0.25	4.25	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , FUNCTION TEST ANNULAR < 32 SECONDS TO CLOSE >
04:15	06:45	2.50	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 784m - 826m
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 FROM 826m - 839m
08:00	08:30	0.50	8.50	5	COND MUD & CIRC	CIRCULATE HOLE CLEAN/CHANGE SHAKER SCREENS
08:30	12:00	3.50	12.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 839m TO 894m
12:00	13:45	1.75	13.75	2	DRILL ACTUAL	CONT TO DRILL 311mm HOLE FROM 894m to 921m
13:45	14:00	0.25	14.00	21	SAFETY MEETING	SAFETY MEETING WITH TOM FELLOWS AND WES McCLOY (STONEHAM DRILLING) , BILL WILLIAMS (NALCOR ENERGY) , RIG MANAGER AND CREW
14:00	16:45	2.75	16.75	2	DRILL ACTUAL	CONTINUE TO DRILL FROM 921m TO 962m
16:45	17:00	0.25	17.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
17:00	18:45	1.75	18.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 962m TO 990m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER
19:00	20:45	1.75	20.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 990m TO 1045m
20:45	23:45	3.00	23.75	5	COND MUD & CIRC	CIRCULATING HOLE AND CONNECTIONS

AFE Number	Total AFE Amount
Daily Cost Total 63,704.00	Cum Cost To Date 1,793,264.77
Daily Mud Cost 11,952.51	Mud Additive Cost To Date 43,228.17
Depth Start (mKB) 743.00	Depth End (mKB) 1,045.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
DEFOAMER		2.0
POLY PAC UL	134.93	6.0
POLY PAC R	134.93	6.0
ULTRA CAP	233.72	6.0
BARITE	22.70	84.0
DEFOAMER		4.0
DUO VIS	99.09	7.0
POLY PAC R	134.93	12.0
ULTRA CAP	233.72	12.0
BARITE	22.70	84.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	MOUSEHOLE CONNECTIONS WITH DRILL PIPE
00:00	Safety Meeting	LOCK-OUT PROCEDURES

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/23/2010
Report #: 27.0, DFS: 14.63
Depth Progress: 68.00

Well Name: NALCOR ET.AL FINNEGAN #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 Tg
Original Hole	1,092.00	1,113.00	747.00	51.25	42.0		20	130	14,500			0.0
Original Hole	1,113.00		747.00	51.25			20	130	14,500			0.0



Daily Drilling

Report for: 9/23/2010
 Report #: 27.0, DFS: 14.63
 Depth Progress: 68.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 11	Road Condition FAIR	Hole Condition IN GAUGE
Operations at Report Time REAMING TO BOTTOM		Operations Next Report Period REAMING TO BOTTOM AND DRILL	

Operations Summary
 DRILLED 311 mm HOLE FROM 1045 m TO 1113 m. PULLED OUT OF HOLE FOR BIT CHANGE
 MADE UP REED MFS716 PDC BIT AND RAN IN HOLE. SLIP AND CUT AND CONTINUE IN THE HOLE
 NO INCIDENTS OR ACCIDENTS

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	25		CONTINUE TO CHANGE LINER GASKET IN MUD PUMP #1
01:15	04:15	3.00	4.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1045m - 1072m
04:15	04:30	0.25	4.50	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED ALL OIL LEVELS , FUNCTION TEST ANNULAR < 32 SEC TO CLOSE >
04:30	06:45	2.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1072m - 1086m
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 FROM 1086m - 1111m
11:00	12:00	1.00	12.00	5	COND MUD & CIRC	CIRCULATE HOLE CLEAN AND CONNECTIONS
12:00	12:30	0.50	12.50	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1111m TO 1113m
12:30	13:15	0.75	13.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
13:15	13:30	0.25	13.50	21	SAFETY MEETING	SAFETY MEETING TRIPPING OUT OF HOLE
13:30	18:45	5.25	18.75	6	TRIPS	TRIP OUT OF HOLE WITH FLOWCHECK @ 1096m/960M/547M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER
19:00	20:30	1.50	20.50	6	TRIPS	CONTINUE TO TRIP OUT OF HOLE WITH FLOW CHECK OUT OF HOLE , FUNCTION TEST BLIND RAMS WHILE OUT OF HOLE < 6 SEC TO CLOSE >
20:30	22:00	1.50	22.00	20	DIR. WORK	DIRECTIONAL WORK , DRAIN MOTOR , BREAK BIT , INSTALL NEW BIT , CHECK FILTER SUB AND FLOAT SUB
22:00	00:00	2.00	24.00	6	TRIPS	TRIP IN HOLE , MAKE UP BHA AND RUN IN HOLE TO CASING SHOE WITH FLOW CHECK AT SHOE

1,113.00mKB, 9/22/2010 18:00						
Type KLA SHIELD	Time 18:00	Depth (mKB) 1,113.00	Density (kg/m³) 1130.0	Funnel Viscosity (s/L) 82	PV Override (cp) 22.0	YP Override (Pa) 23.000
Gel 10 sec (Pa) 10.000	Gel 10 min (Pa) 12.000	Filtrate (mL/30min) 7.0	Filter Cake (mm) 1.0	pH 10.0	Sand (%) 0.0	Solids (%) 7.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,900.000	Calcium (mg/L) 200.000	PF (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 14.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 38.60	Active Mud Volume (m³) 127.00		

BHA #3, Drilling Assembly						
Bit Run 3	Drill Bit 311.0mm, MSI616, JD6659	Length (m) 0.30	IADC Bit Dull 1-1-CT-A-X-1.00-FC-PR	TFA (incl Noz) (mm²) 361	BHA ROP... 14.6	
Nozzles (mm) 11.1/11.1/11.1/9.5			String Length (m) 1,028.84	OD (mm) 260.0		
String Components SMITH MSI616, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles						
Comment 3*10, 3*12, 3*14 NOZZLES						

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	1,045.00	1,092.00	726.00	50.75	5.1		16	140	15,000			0.0

AFE Number	Total AFE Amount
Daily Cost Total 73,499.65	Cum Cost To Date 1,866,764.42
Daily Mud Cost 4,188.41	Mud Additive Cost To Date 47,416.58
Depth Start (mKB) 1,045.00	Depth End (mKB) 1,113.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Bill Williams	709 765 1074

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			

Mud Additive Amounts		
Description	Cost /(unit)	Consumed
KLA STOP	1,233.57	1.0
DUO VIS	99.09	2.0
ULTRA CAP	233.72	5.0
BARITE	0.00	106.0
HALLIBURTON		
KLA STOP	1,233.57	1.0
DEFOAMER	354.49	1.0
BARITE	0.00	42.0
HALLIBURTON		

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	TRIPPING OUT OF HOLE
00:00	Safety Meeting	SLIP AND CUT

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/24/2010
 Report #: 28.0, DFS: 15.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #3, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
3	311.0mm, MSI616, JD6659	0.30	1-1-CT-A-X-1.00-FC-PR	361	14.6

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1/9.5	1,028.84	260.0

String Components
 SMITH MSI616, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment
 3*10, 3*12, 3*14 NOZZLES

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												
Original Hole	1,113.00		747.00	51.25			20	130	14,500			0.0



Daily Drilling

Report for: 9/24/2010
 Report #: 28.0, DFS: 15.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:540.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) 7	Road Condition FAIR	Hole Condition IN GAUGE
Operations at Report Time REAMING TO BOTTOM @ 1017		Operations Next Report Period FINISH TO BOTTOM & DRILL	

Operations Summary
 Morning Tour Notes:
 CHECKED BRAKES AND LINKAGES
 CHECKED AND RESET CROWN SAVER AFTER SLIP AND CUT
 FUNCTION MOTOR KILLS
 FUNCTION FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECK MECHANICAL CROWN SAVER @ 700
 NO INCIDENTS AND NO ACCIDENTS

FUNCTION TEST BOP (PASSED) REAMING IN HOLE WITH THE NEW BIT, SAFETY MEETINGS, LAY OUT PIPE AND CONTINUE TO REAM 311 MM HOLE TO BOTTOM

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 , FUNCTION TEST ANNULAR < 34 SECONDS TO CLOSE > & HCR VALVE < 3 SECONDS TO OPEN >
00:15	00:30	0.25	0.50	21	SAFETY MEETING	SAFETY MEETING ON SLIP AND CUT DRILLING LINE
00:30	01:30	1.00	1.50	9	CUT OFF DRILLING LINE	SLIP & CUT 15m OF DRILLING LINE
01:30	01:45	0.25	1.75	6	TRIPS	CONTINUE TO TRIP IN HOLE TRIP IN HOLE
01:45	02:00	0.25	2.00	20	DIR. WORK	DIRECTIONAL WORK , PLUSE TEST TOOL
02:00	05:30	3.50	5.50	3	REAMING	REAM AND CLEAN FROM 576m - 636m
05:30	06:30	1.00	6.50	6	TRIPS	LAY DOWN DRILL PIPE TO BE ABLE TO RUN STANDS OUT OF DERRICK SO WE CAN REAM FROM CATWALK INSTEAD OF DERRICK
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES / SAFETY MEETING WITH TERRY OREILLY (NALCOR ENERGY)
06:45	07:30	0.75	7.50	6	TRIPS	TRIP IN HOLE, F/T CROWN SAVER
07:30	12:00	4.50	12.00	3	REAMING	REAM & CLEAN , PICK UP KELLY, REAM fr 616 to 670
12:00	17:45	5.75	17.75	3	REAMING	REAM & CLEAN, REAM FR 670 TO 780
17:45	18:00	0.25	18.00	7	RIG SERVICE	RIG SERVICE ,GREASE BLOCKS, F/T PIPE RAMS, GREASE WASH PIPE ,DRIVESHAFT,
18:00	18:45	0.75	18.75	3	REAMING	REAM & CLEAN FROM 780 TO 787
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING, CREW HANDOVER MEETING
19:00	21:15	2.25	21.25	3	REAMING	REAM & CLEAN FROM 787 TO 823m
21:15	21:30	0.25	21.50	21	SAFETY MEETING	SAFETY MEETING LAYING OUT SINGLES
21:30	22:30	1.00	22.50	6	TRIPS	LAY DOWN 20 SINGLES OF DRILL PIPE WITH FLOW CHECK @ 822m/698M/560m/meas 3.84M3/CALC 2.8M3/DIFF 1.04m3
22:30	23:15	0.75	23.25	6	TRIPS	CLEAN UP FLOOR AND TRIP 10 STANDS IN HOLE
23:15	00:00	0.75	24.00	3	REAMING	REAM & CLEAN from 823m TO 839m

785.00mKB, 9/24/2010 18:00						
Type KLA SHIELD	Time 18:00	Depth (mKB) 785.00	Density (kg/m³) 1140.0	Funnel Viscosity (s/L) 104	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa) 10.000	Gel 10 min (Pa) 12.000	Filtrate (mL/30min) 6.0	Filter Cake (mm) 1.0	pH 9.5	Sand (%)	Solids (%) 7.5
MBT (kg/m³) 7	Alkalinity (mL/mL)	Chlorides (mg/L) 1,500.000	Calcium (mg/L) 160.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 14.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 48.50	Active Mud Volume (m³) 143.00		

AFE Number	Total AFE Amount
Daily Cost Total 65,419.42	Cum Cost To Date 1,932,183.84
Daily Mud Cost 1,821.78	Mud Additive Cost To Date 49,238.36
Depth Start (mKB) 1,113.00	Depth End (mKB) 1,113.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Tim Kennedy	780 913 1869
Ian O'leary	709 725 4365
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
KLA STOP	1,233.57	1.0
ULTRA CAP	233.72	1.0
DEFOAMER	354.49	1.0
BARITE	0.00	42.0
HALLIBURTON		

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	reaming
00:00	Safety Meeting	RIG SERVICE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/25/2010
 Report #: 29.0, DFS: 16.63
 Depth Progress: 94.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #4, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
4	311.0mm, MSF 716, 225675	0.28	0-1-CT-H-X-1.00-BT-PR	333	7.7
Nozzles (mm)		String Length (m)		OD (mm)	
10.3/10.3/10.3/10.3		1,220.80		260.0	

String Components
 REED MSF 716, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment
 Reed

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	1,113.00	1,207.00	94.00	9.50	9.9		15	140	15,800			0.0



Daily Drilling

Report for: 9/25/2010
 Report #: 29.0, DFS: 16.63
 Depth Progress: 94.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLOUDY	Temperature (°C) 7	Road Condition FAIR	Hole Condition IN GAUGE
Operations at Report Time TRIPPING OUT BIT		Operations Next Report Period FINISH BIT TRIP, REAM TO BOTTOM	

Operations Summary
 Morning Tour Notes:
 CHECKED BRAKES AND LINKAGES
 CHECKED AND RESET CROWN SAVER AFTER SLIP AND CUT
 FUNCTION MOTOR KILLS
 FUNCTION FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECK MECHANICAL CROWN SAVER @ 700
 GAS SPIKE @ 1150M TO 6440 UNITS AND THEN BACK TO NORMAL
 NO INCIDENTS AND NO ACCIDENTS

HAD BOP DRILL, WELL SHUT IN 1 MIN 45 SEC
 FINISH REAMING TO BOTTOM AND DRILL 311 MM HOLE TO 1207M

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:45	5.75	5.75	3	REAMING	CONTINUE TO REAM & CLEAN FROM 839m TO 1004m
05:45	06:00	0.25	6.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION ANNULAR 32 SEC TO CLOSE
06:00	06:45	0.75	6.75	3	REAMING	CONTINUE TO REAM & CLEAN FROM 1004m TO 1016m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HANDOVER
07:00	11:45	4.75	11.75	3	REAMING	CONTINUE TO REAM & CLEAN FROM 1016 TO 1113m
11:45	12:00	0.25	12.00	21	SAFETY MEETING	SAFETY MEETING WITH CONSULTANT,OPTIMAX HAND,DIR. HAND
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
12:15	15:00	2.75	15.00	2	DRILL ACTUAL	DRILL AHEAD FROM 1113m TO 1140m
15:00	15:15	0.25	15.25	21	SAFETY MEETING	BOP DRILL
15:15	15:45	0.50	15.75	2	DRILL ACTUAL	DRILL AHEAD FROM 1140m TO 1150m
15:45	16:00	0.25	16.00	21	SAFETY MEETING	FLOW CHECK(INCREASE IN FLOW,TANK GAIN)
16:00	18:45	2.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1150m TO 1170m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING,CREW HANDOVER MEETING
19:00	20:30	1.50	20.50	5	COND MUD & CIRC	CIRCULATE HOLE AND CONNECTIONS
20:30	00:00	3.50	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1170m TO 1207m

1,156.00mKB, 9/25/2010 17:00						
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	17:00	1,156.00	1140.0	92	20.0	17.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
8.000	10.000	6.0	1.0	9.1	0.3	7.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,400.000	280.000	1.300		10.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
			48.60	143.00		

AFE Number	Total AFE Amount
Daily Cost Total 94,247.51	Cum Cost To Date 2,026,431.35
Daily Mud Cost 2,821.63	Mud Additive Cost To Date 52,059.99
Depth Start (mKB) 1,113.00	Depth End (mKB) 1,207.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Tim Kennedy	780 913 1869
Ian O'leary	709 725 4365
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 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/...)	
	279.0		
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/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
KLA STOP	1,233.57	1.0
BARITE HALLIBURTON	0.00	35.0
KLA STOP	1,233.57	1.0
DEFOAMER	354.49	1.0
BARITE HALLIBURTON	0.00	276.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	BOP DRILL AND MIXING CHEMICALS
00:00	Safety Meeting	HOUSE KEEPING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/26/2010
 Report #: 30.0, DFS: 17.63
 Depth Progress: 16.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,225.00mKB, 9/26/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m ³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	00:00	1,225.00	1250.0	75	25.0	16.000
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	8.8	0.3	11.0
MBT (kg/m ³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,000.000	40.000	1.400		5.000
Whole Mud Added (m ³)	Mud Lost to Hole (m ³)	Mud Lost to Surface (m ³)	Reserve Mud Volume (m ³)	Active Mud Volume (m ³)		
			41.10	73.70		

BHA #4, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
4	311.0mm, MSF 716, 225675	0.28	0-1-CT-H-X-1.00-BT-PR	333	7.7
Nozzles (mm)	String Length (m)		OD (mm)		
10.3/10.3/10.3/10.3	1,220.80		260.0		

String Components

REED MSF 716, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

Reed

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	1,209.00	1,225.00	110.00	14.25	3.4		18	140	155,000			0.0



Daily Drilling

Report for: 9/26/2010
Report #: 30.0, DFS: 17.63
Depth Progress: 16.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) 4	Road Condition FAIR	Hole Condition IN GAUGE
Operations at Report Time RUNNING IN THE HOLE @ 603M		Operations Next Report Period RUN IN HOLE + DRILL	

Operations Summary
Morning Tour Notes:
FLOW CHECKS TO 1170 THERE WAS VERY SLIGHT FLOW
WELL STATIC @ 1200, WT TO 1250 FOR TRIP MARGIN
FUNCTION CROWN SAVER @ 19:15
CHECK ALL WELL CONTROL EQUIPMENT/FUNCTION FLARE IGNITOR
CHECK ALL FLOOR EQUIPMENT VISUALLY INSPECT DERRICK
CHECK BRAKES AND LINKAGES
REVIEWED JTA # 2-B CATWALK OPERATIONS/2-C TONG OPERATIONS/2-D MOUSEHOLE CONNECTIONS WITH DRILL PIPE/7-1 RIG SERVICE
DRILL PIPE COUNT @ 6:00 191 singles on racks/65 singles in hole/256 total on location
Day Tour Notes:
CHECK BRAKE LINKAGES
CHECK MANIFOLD ALIGNMENT
REVIEWED JTAS 6A, SETTING AND PULLING SLIPS 6H, PIPE SPINNER USE 6E, POOH WITH DRILL STRING 6L, FLOW CHECKS
WEIGHT UP TO 1230 (SLIGHT FLOW WHEN BACK TO BOTTOM)
PIPE COUNT 191 ON RACKS 65 IN HOLE (256 ON LOCATION)

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	CONTINUE TO DRILL 311mm HOLE FROM 1207m TO 1223m
04:15	04:30	0.25	4.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION ANNULAR 32 SEC TO CLOSE
04:30	05:00	0.50	5.00	5	COND MUD & CIRC	CIRCULATE HOLE AND CONNECTIONS
05:00	05:30	0.50	5.50	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1223m TO 1225m
05:30	06:45	1.25	6.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HANDOVER
07:00	09:45	2.75	9.75	6	TRIPS	TRIP OUT OF HOLE WITH FLOW CHECK @ 1225m 1080m 610m FUNCTION TEST CROWN SAVER
09:45	11:30	1.75	11.50	6	TRIPS	TRIP IN HOLE WELL FLOWING ON FLOW CHECK
11:30	12:00	0.50	12.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTTOMS UP, WEIGHT UP TO 1160
12:00	14:00	2.00	14.00	5	COND MUD & CIRC	WEIGHT UP MUD TO 1170
14:00	14:15	0.25	14.25	5	COND MUD & CIRC	FLOW CHECK WELL FLOWING
14:15	16:15	2.00	16.25	5	COND MUD & CIRC	CIRCULATE AND CONDITION INCREASE MUD WEIGHT TO 1200kg/m3
16:15	16:30	0.25	16.50	5	COND MUD & CIRC	FLOW CHECK
16:30	16:45	0.25	16.75	7	RIG SERVICE	RIG SERVICE
16:45	18:45	2.00	18.75	5	COND MUD & CIRC	CIRCULATE AND CONDITION MUD INCREASE MUD WEIGHT TO 1250kg/m3 FOR TRIP MARGIN
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
19:00	19:30	0.50	19.50	5	COND MUD & CIRC	CIRCULATE AND CONDITION MUD BRING WEIGHT UP TO 1250kg/m3
19:30	00:00	4.50	24.00	6	TRIPS	TRIP OUT OF HOLE WITH FLOW CHECK @ 1219m/1082m/586m/338m

AFE Number	Total AFE Amount
Daily Cost Total 80,936.00	Cum Cost To Date 2,107,367.35
Daily Mud Cost 5,498.78	Mud Additive Cost To Date 57,558.77
Depth Start (mKB) 1,209.00	Depth End (mKB) 1,225.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
BARITE	0.00	137.0
HALLIBURTON		
ULTRA CAP	233.72	2.0
DEFOAMER	354.49	2.0
KLA STOP	1,233.57	3.0
CAUSTIC	38.41	4.0
SODIUM BI CARB	27.53	17.0
BARITE	0.00	892.0
HALLIBURTON		

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/27/2010
 Report #: 31.0, DFS: 18.63
 Depth Progress: 34.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #6, Drilling Assembly												
Bit Run	Drill Bit		Length (m)	IADC Bit Dull			TFA (incl Noz) (mm²)	BHA ROP...				
5	311.0mm, MSF 813S, 129721		0.28	3-4-BT-S-X-1.00-WT-PR			387	2.8				
Nozzles (mm)			String Length (m)				OD (mm)					
11.1/11.1/11.1/11.1			1,276.13				311.0					
String Components												
REED MSF 813S, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,225.00	1,259.00	34.00	10.25	3.3		21	140	19,500			0.0



Daily Drilling

Report for: 9/27/2010
 Report #: 31.0, DFS: 18.63
 Depth Progress: 34.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) 6	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 FINISHED BIT TRIP, HOLE WAS GOOD AND BACK ON BOTTOM DRILLING

Morning Tour Notes:
 CHECK CROWN SAVER @ 19:15
 CHECK BRAKES AND LINKAGES
 REVIEWED JTA #6-A SETTING AND PULLING SLIPS/6-H PIPE SPINNER USE/6-L FLOW CHECKS/6-I DOG COLLAR USE
 CHECK ALL WELL CONTROL EQUIPMENT/FUNCTION FLARE IGNITOR/CHECK ALL FLOOR EQUIPMENT VISUALLY
 INSPECT DERRICK

Day Tour Notes:
 CHECK BRAKES AN D LINKAGE
 CHECKED MANIFOLD ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE BOP
 VISUAL INSPECTION OFF TONGS
 REVIEW JTAS 2-A HOUSEKEEPING,2-D MOUSEHOLE CONNECTIONS WITH DRILL PIPE,2-B CATWALK OPERATIONS
 RIG SERVICE AT 1800 GREASED CROWN,CHECKED BRAKE PADS ,GREASED DRAWWORKS,DRIVE SHAFT,WASH PIPE,CHECKED ALL OILS

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	6	TRIPS	CONTINUE TO TRIP OUT OF HOLE/FUNCTION BLIND RAMS 6 SEC TO CLOSE WHILE OUT OF HOLE/ FILL VOLUMES MEASURED 12.79m3/ CALCULATED 10.74M3/ DIFFERENCE 2.05M3
01:15	03:00	1.75	3.00	20	DIR. WORK	DIRECTIONAL WORKLAYOUT X/O SUBS/CLEAN UP FILTER SUB/PICK UP X/O AND DOG SUB
03:00	03:45	0.75	3.75	25		CHANGED JETS IN REED BIT AND MAKE UP BIT AND DOG SUB
03:45	06:45	3.00	6.75	6	TRIPS	TRIP IN HOLE TO 592 WITH FLOW CHECK @ 592m/FILL PIPE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HANDOVER
07:00	09:15	2.25	9.25	6	TRIPS	TRIP IN HOLE FR 592m TO 1087m
09:15	09:45	0.50	9.75	3	REAMING	PICK UP KELLY REAM FROM 1087 TO 1110m
09:45	10:45	1.00	10.75	6	TRIPS	TRIP IN HOLE FROM 1110m 1197m
10:45	12:00	1.25	12.00	6	TRIPS	TRIP IN HOLE PICK UP KELLY WASH TO BOTTOM
12:00	17:45	5.75	17.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1225 TO 1237m
17:45	18:00	0.25	18.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS/F/T UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
18:00	18:45	0.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1238m TO 1240m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER
19:00	19:30	0.50	19.50	5	COND MUD & CIRC	CIRCULATE AND CLEAN AND CONNECTIONS
19:30	00:00	4.50	24.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1240m TO 1259m

1,232.00mKB, 9/27/2010 16:00

Type KLA SHIELD	Time 16:00	Depth (mKB) 1,232.00	Density (kg/m³) 1255.0	Funnel Viscosity (s/L) 73	PV Override (cp) 24.0	YP Override (Pa) 16.000
Gel 10 sec (Pa) 4.000	Gel 10 min (Pa) 5.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 11.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,050.000	Calcium (mg/L) 40.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 6.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 41.00	Active Mud Volume (m³) 155.00		

AFE Number		Total AFE Amount	
Daily Cost Total 123,558.00		Cum Cost To Date 2,230,925.35	
Daily Mud Cost 2,018.57		Mud Additive Cost To Date 59,577.34	
Depth Start (mKB) 1,225.00		Depth End (mKB) 1,259.00	
Target Formation Aguathuna		Target Depth (mKB) 3,250.00	
Last Casing String Surface, 570.00mKB			

Daily Contacts

Job Contact	Mobile
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARITE	0.00	35.0
HALLIBURTON		
KLA STOP	1,233.57	1.0
DEFOAMER	354.49	2.0
NUT PLUG FINE	25.34	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DRILLING
00:00	Safety Meeting	HOUSE KEEPING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/28/2010
 Report #: 32.0, DFS: 19.63
 Depth Progress: 24.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #6, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
5	311.0mm, MSF 813S, 129721	0.28	3-4-BT-S-X-1.00-WT-PR	387	2.8

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/11.1/11.1	1,276.13	311.0

String Components
 REED MSF 813S, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,259.00	1,283.00	58.00	20.50	2.3		27	120	17,500			2,00...



Daily Drilling

Report for: 9/28/2010
 Report #: 32.0, DFS: 19.63
 Depth Progress: 24.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 11	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 Morning Tour Notes:
 DRILLED 311 MM HOLE 1259-1290M
 CIRC AND COND HOLE
 TRIP FOR BIT, CHANGE BIT TO A SMITH GFI35B
 * COULD NOT BREAK DOG SUB FROM THE BIT SO LAYED OUT AS ONE PIECE AND PICK UP NEW DOG SUB, *
 CHANGE OUT 3 POINT STRING ROLLER REAMER FROM BAKER FOR NEW FULL GAUGE
 RUN IN THE HOLE
 CHECK ALL WELL CONTROL EQUIPMENT
 FUNCTION CROWN SAVER @ 21:30
 CHECK ALL FLOOR EQUIPMENT VISUALLY INSPECT DERRICK
 REVIEWED JTA # 2-A HOUSE KEEPING/2-C TONG OPERATIONS/2-D MOUSEHOLE CONNECTIONS WITH DRILL
 PIPE/2-F OPERATING DRILLER CONSOLE
 PIPE COUNT @ 6:00 DRILL PIPE IN HOLE 68 SINGLES/DRILL PIPE ON RACKS 188 SINGLES/TOTAL ON LOCATION
 256 SINGLES

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	CONTINUE TO DRILL 311mm HOLE FR 1259m TO1264m
01:45	02:00	0.25	2.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION ANNULAR 32 SEC TO CLOSE
02:00	06:45	4.75	6.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FR 1264m TO 1280m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	CREW HANDOVER
07:00	11:30	4.50	11.50	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1280m TO 1290m
11:30	12:00	0.50	12.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
12:00	15:00	3.00	15.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
15:00	18:30	3.50	18.50	6	TRIPS	TRIP OUT OF HOLE WITH FLOW CHECKS AT 1290,1125,984,628,352m
18:30	18:45	0.25	18.75	7	RIG SERVICE	RIG SERVICE,F/T UPPER,LOWER PIPE RAMS 6secs OPEN/CLOSE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	20:30	1.50	20.50	6	TRIPS	CONTINUE TRIP OUT OF HOLE FLOW CHECK OUT OF HOLE/FUNCTION BLIND RAMS 6 SEC TO CLOSE/MEAS 14.91M3/CALC 10.98M3/DIFF 3.93M3
20:30	20:45	0.25	20.75	21	SAFETY MEETING	SAFETY MEETING WITH DIRECTIONAL
20:45	22:00	1.25	22.00	20	DIR. WORK	DIRECTIONAL WORK
22:00	23:00	1.00	23.00	25		BREAK OUT BIT AND DOG SUB/PICK UP NEW BIT AND NEW DOG SUB AND MAKE UP
23:00	00:00	1.00	24.00	6	TRIPS	TRIP IN HOLE TO 110M

1,290.00mKB, 9/28/2010 14:30						
Type KLA SHIELD	Time 14:30	Depth (mKB) 1,290.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 60	PV Override (cp) 24.0	YP Override (Pa) 15,000
Gel 10 sec (Pa) 4.000	Gel 10 min (Pa) 5.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 8.8	Sand (%) 0.0	Solids (%) 11.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,150.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 6.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 41.00	Active Mud Volume (m³) 151.00		

AFE Number	Total AFE Amount
Daily Cost Total 54,819.86	Cum Cost To Date 2,285,745.21
Daily Mud Cost 4,293.50	Mud Additive Cost To Date 63,870.84
Depth Start (mKB) 1,259.00	Depth End (mKB) 1,283.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11		
Contractor STONEHAM DRILLING INC.	Rig Number 11	
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11		
Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

2, GARDNER DENVER, PZ-11		
Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
HEC 10		1.0
LIGNITE	34.00	1.0
KLA STOP	1,233.57	1.0
CAUSTIC	38.41	1.0
defoamer x	390.26	1.0
DEFOAMER	354.49	2.0
ULTRA CAP	233.72	4.0
BARITE	22.70	42.0
BARITE	0.00	252.0
HALLIBURTON		

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/29/2010
 Report #: 33.0, DFS: 20.63
 Depth Progress: 11.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #7, Drilling Assembly												
Bit Run	Drill Bit		Length (m)	IADC Bit Dull			TFA (incl Noz) (mm ²)	BHA ROP...				
6	311.0mm, GFI35V0D1VCPS, PP3324			3-3-BT-A-7-1.00-WT-PR			722	1.3				
Nozzles (mm)			String Length (m)			OD (mm)						
15.9/15.9/15.9/12.7			1,330.88			311.0						
String Components												
SMITH GFI35V0D1VCPS, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tg
Original Hole	1,290.00	1,301.00	11.00	6.75	1.6		18	115	12,700			



Daily Drilling

Report for: 9/29/2010
Report #: 33.0, DFS: 20.63
Depth Progress: 11.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 14	Road Condition POOR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
Morning Tour Notes:
NO ACCIDENTS, 1 MINOR INCIDENT WHER THE BRANDT HAND SLIPPED INTO A WASH OUT NEAR THE BURIED TANK. THE AREA WAS ROPED OFF, WATER DRAINED AND THE WASH OUT WILL BE FILLED IN. FINISHED TRIP IN HOLE, DRILL FROM 1297 - 1331. PUMPED 2.5 M3 OF PECAN NUT PLUG FINE. BULK TANKS ARE FULL OF CEMENT. 9 5/8 CASING STRAPPED. BILLING CORRECTION OF A \$38,000 CREDIT FROM BAKER APPLIED FUNCTION CROWN SAVER @ 1:45 CHECK ALL WELL CONTROL EQUIPMENT CHECK ALL FLOOR EQUIPMENT VISUALLY INSPECT DERRICK REVIEWED JTA # 6-A SETTING AND PULLING SLIPS/6-I DOG COLLAR USE/6-H PIPE SPINNER USE

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	CONTINUE TO TRIP IN HOLE FROM 110M TO 549M FLOW CHECK @ 549M
01:00	02:00	1.00	2.00	9	CUT OFF DRILLING LINE	SLIP/CUT 11.68M DRILLING LINE
02:00	04:30	2.50	4.50	6	TRIPS	CONT TO TRIP IN HOLE FROM 549M TO 714m FLOWCHECK AND FILL PIPE CONT TO RUN IN HOLE FR 714m TO 1290m WASHING LAST 2 SINGLES TO BOTTOM
04:30	06:15	1.75	6.25	2	DRILL ACTUAL	CONTINUE TO DRILL 211mm HOLE FROM 1290M TO 1292M
06:15	06:30	0.25	6.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION ANNULAR 32 SEC TO CLOSE
06:30	07:00	0.50	7.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1292M TO 1294M
07:00	07:15	0.25	7.25	21	SAFETY MEETING	CREW HANDOVER
07:15	09:15	2.00	9.25	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1294M TO 1297M
09:15	09:30	0.25	9.50	21	SAFETY MEETING	DRILLS/BOP, ETC. DISCUSSED WELL CONTROL W/CREW ONSITE SUPERVISORS
09:30	12:00	2.50	12.00	2	DRILL ACTUAL	DRILL 311MM HOLE F/1297M - 1301M
12:00	15:15	3.25	15.25	2	DRILL ACTUAL	DRILL 311MM HOLE F/1301M- 1306M
15:15	15:30	0.25	15.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER&RESET F/T UPPER PIPE RAM 4SEC CLOSE OPEN AND F/T LOWER PIPE RAM 4SEC CLOSE OPEN
15:30	18:45	3.25	18.75	2	DRILL ACTUAL	DRILL 311MM HOLE F/1306M- 1317M
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 FROM 1317M TO 1331M
23:30	00:00	0.50	24.00	5	COND MUD & CIRC	CUMULATIVE TIME FOR CONNECTIONS, CYCLING VERTITRAK AND CLEANING HOLE

1,309.00mKB, 9/29/2010 16:30						
Type KLA SHIELD	Time 16:30	Depth (mKB) 1,309.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 80	PV Override (cp) 29.0	YP Override (Pa) 15.500
Gel 10 sec (Pa) 4.000	Gel 10 min (Pa) 5.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 8.8	Sand (%) 11.0	Solids (%) 6.000
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,250.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 6.000
Whole Mud Added (m³)	Mud Lost to Hole (m³) 1.00	Mud Lost to Surface (m³) 5.00	Reserve Mud Volume (m³) 50.00	Active Mud Volume (m³) 156.00		

AFE Number	Total AFE Amount
Daily Cost Total 64,433.50	Cum Cost To Date 2,350,178.71
Daily Mud Cost 4,747.42	Mud Additive Cost To Date 68,618.26
Depth Start (mKB) 1,290.00	Depth End (mKB) 1,301.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Well Site Office	709 636 4147
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261

STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635
1, GARDNER DENVER, PZ-11	
Pump Number 1	Pwr (kW) Rod Dia (mm)
Liner Size (mm) 279.0	Stroke (mm) Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No
Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11	
Pump Number 2	Pwr (kW) Rod Dia (mm)
Liner Size (mm) 279.0	Stroke (mm) Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No
Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
DEFOAMER	354.49	1.0
DUO VIS	99.09	2.0
ULTRA CAP	233.72	11.0
BARITE-HALLIBU...	0.00	168.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	DRILLING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 9/30/2010
 Report #: 34.0, DFS: 21.63
 Depth Progress: 11.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,341.00mKB, 9/30/2010 16:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	16:00	1,341.00	1250.0	80	28.0	15.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
4.500	5.500	8.0	1.0	8.7		11.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,450.000	120.000	1.300		6.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		3.00	53.00	156.00		

BHA #8, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
7	311.0mm, M4528, CK118	0.30	1-1-FC-A-E-0.00-FC-PR	860	1.4
Nozzles (mm)	String Length (m)		OD (mm)		
19.1/19.1/19.1	1,399.75		311.0		

String Components
 REED M4528, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,341.00	1,342.00	1.00	1.50	0.7		27	100	11,800			



Daily Drilling

Report for: 9/30/2010
 Report #: 34.0, DFS: 21.63
 Depth Progress: 11.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:54:0.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN & HEAVY WIND	Temperature (°C) 16	Road Condition POOR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 MORNING TOUR NOTES;
 RIG SERVICE
 FUNCTION ANNULAR
 DRILLED FROM 1331-1341
 BOP DRILL WITH THE WELL SHUT IN, IN 1 MIN 10 SEC
 CIRCULATE AND CONDITION MUD PRIOR TO BIT TRIP
 FLOW CHECK , WELL STATIC
 TRIP FOR BIT
 3PT ROLLER REAMER & DOG SUB IN GAUGE
 BIT WAS WORN, BROKER CUTTERS, 2 FAILED BEARINGS & IN GAUGE
 TRIP IN HOLE
 PATTERNED THE BIT AND DRILL TO 1342
 CENTRIFUGE RUNNING ON BARITE RECOVERY

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 311mm HOLE FROM 1331M TO 1334M
03:30	03:45	0.25	3.75	7	RIG SERVICE	RIG SERVICE GREASED DRAWWORKS,WASHPPIPE,CHECKED ALL OILS , FUNCTION TEST ANNULAR 32 SEC TO CLOSE
03:45	06:15	2.50	6.25	2	DRILL ACTUAL	DRILL 311mm FROM 1334M TO 1337M
06:15	06:30	0.25	6.50	21	SAFETY MEETING	SAFETY MEETING BOP DRILL 1min10secs TO SHUT IN WELL
06:30	06:45	0.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1337M TO 1378M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	10:00	3.00	10.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1378M TO 1341M
10:00	10:30	0.50	10.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO BIT TRIP
10:30	12:00	1.50	12.00	6	TRIPS	TRIP OUT OF HOLE W/ FLOW CHECKS@ 1331M-1183M
12:00	16:00	4.00	16.00	6	TRIPS	CONT TRIP OUT OF HOLE W/FLOW CHECKS@632M-246M-OM CALC=11.1 MEAS=10.94 RILL=-.16 F/T BLIND RAMO.O.H 4SEC CLOSE OPEN
16:00	16:15	0.25	16.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMONENTS CHECKED ALL OIL LEVELS F/T CROWN SAVER
16:15	17:30	1.25	17.50	20	DIR. WORK	DIRECTIONAL WORK LAY OUT JARS BREAK DOWN DOG SUB & BIT CHECKFLOAT&FILTER GAGE ROLLER REAMER
17:30	18:45	1.25	18.75	6	TRIPS	MAKE UP B.H.A TRIP IN HOLE W/FLOW CHECKS@ 245M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
19:00	19:45	0.75	19.75	6	TRIPS	TRIP IN HOLE FROM 245M TO 538M
19:45	20:15	0.50	20.25	6	TRIPS	FLOW CHECK, PICK UP KELLY AND FUNCTION TEST VERTATRAC, RACK BACK KELLY
20:15	21:00	0.75	21.00	6	TRIPS	TRIP IN HOLE FROM 538M TO1300M
21:00	22:30	1.50	22.50	6	TRIPS	FLOW CHECK AT 1300M,REMOVE ELEVATORS, PICK UP KELLY BREAK CIRCULATION, WASH TO BOTTOM, PATTERN BIT
22:30	00:00	1.50	24.00	2	DRILL ACTUAL	DRILL AHEAD FROM 1340M TO 1342M

AFE Number	Total AFE Amount
Daily Cost Total 69,598.00	Cum Cost To Date 2,419,776.71
Daily Mud Cost 3,588.13	Mud Additive Cost To Date 72,206.39
Depth Start (mKB) 1,331.00	Depth End (mKB) 1,342.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts

Job Contact	Mobile
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Ian O'leary	709 725 4365
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s... Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
ULTRA CAP	233.72	1.0
ULTRA CAP	233.72	3.0
NUT PLUG	25.34	3.0
BARITE-HALLIBU...	0.00	42.0
BARITE-MI	22.70	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	
00:00	Safety Meeting	TRIPPING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/1/2010
 Report #: 35.0, DFS: 22.63
 Depth Progress: 24.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,373.00mKB, 10/1/2010 16:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	16:00	1,373.00	1250.0	78	29.0	14.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
4.500	5.000	8.0	1.0	8.9		10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,500.000	100.000	1.400		6.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		2.00	68.00	156.00		

BHA #8, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
7	311.0mm, M4528, CK118	0.30	1-1-FC-A-E-0.00-FC-PR	860	1.4
Nozzles (mm)	String Length (m)		OD (mm)		
19.1/19.1/19.1	1,399.75		311.0		

String Components

REED M4528, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,342.00	1,366.00	25.00	12.75	2.1		27	100	11,600			



Daily Drilling

Report for: 10/1/2010
 Report #: 35.0, DFS: 22.63
 Depth Progress: 24.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland			
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25			
Weather RAIN AND HIGH WINDS	Temperature (°C) 18	Road Condition FAIR	Hole Condition GOOD			
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD				
Operations Summary Morning Tour Notes: NO INCIDENTS OR ACCIDENTS CENTRIFUGE RUNNING ON BARITE RECOVERY RIG SERVICE AT 0230HRS GREASED WASH PIPE,DRAW WORKS,CHECKED ALL OILS CHECKED MANIFOLD ALIGNMENT,BRAKE LINKAGES,STABBING VALVE,INSIDE BOP CHECKED CROWN SAVER @ 1900 HRS REVIEWED JTAS 6-A SETTING AND PULLING SLIPS,6-4 WORKING ON MONKEY BOARD,6-H PIPE SPINNER USE PIPE COUNT 74 IN HOLE 182 ON RACKS 256 TOTAL Day Tour Notes: VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP MANIFOLD VALVE ALIGNMENT DEGASSER LINE FLAIR LINE F/T CROWN SAVER@0945 JTA REVIEW 2-A HOUSEKEEPING 2-F OPERATION DRILLERS CONSOLE PIPE IN HOLE@1200HR=75 ON LOCATION=181 TOTAL=256 CORRECT Time log comments: DRILL 311MM HOLE F/1342-1387 M						
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 311mm HOLE FROM 1342M TO 1347M
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE ,REMOVE CAMERA FROM MONKEY BOARD,FUNCTION UPPER/LOWER PIPE RAMS(6secs TO CLOSE)
02:45	06:45	4.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1347M TO 1358
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	09:45	2.75	9.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1358M TO 1361M
09:45	10:00	0.25	10.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION TEST CROWN SAVER&RESET FUNCTION TEST HCR 3SEC TO OPEN
10:00	12:00	2.00	12.00	2	DRILL ACTUAL	DRILL 311MM HOLE F/1361M- 1366M
12:00	17:00	5.00	17.00	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 1366M- 1374M
17:00	17:15	0.25	17.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED DRIVE LINE BOLTS FUNCTION TEST ANNULAR 32SEC TO CLOSE
17:15	18:45	1.50	18.75	2	DRILL ACTUAL	DRILL 311MM HOLE F/1374M-1378M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1378M TO 1387M
23:45	04:30	4.75	28.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1378M TO 1387M
04:30	04:45	0.25	28.75	5	COND MUD & CIRC	CIRCULATE AND CLEAN HOLE ,CYCLE PUMPS FOR VERTATRAK
04:45	05:00	0.25	29.00	5	COND MUD & CIRC	CIRCULATE AND CLEAN HOLE ,CYCLE PUMPS FOR VERTATRAK

AFE Number		Total AFE Amount	
Daily Cost Total 55,900.83		Cum Cost To Date 2,475,677.54	
Daily Mud Cost 2,987.38		Mud Additive Cost To Date 75,193.77	
Depth Start (mKB) 1,342.00		Depth End (mKB) 1,366.00	
Target Formation Aguathuna		Target Depth (mKB) 3,250.00	
Last Casing String Surface, 570.00mKB			
Daily Contacts			
Job Contact		Mobile	
Well Site Office		709 636 4147	
Randy Kavanagh		709 363 7261	
Bill Williams		709 765 1074	
Ian Oleary		709 725 4365	
Tim Kennedy		780 913 1869	
STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.		Rig Number 11	
Rig Supervisor Martin Gould		Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)		Stroke (mm)	Vol/Stk OR (m³/...
279.0			
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
No			
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)		Stroke (mm)	Vol/Stk OR (m³/...
279.0			
Pres (kPa)	Slow Spd	Strokes (s...	Eff (%)
No			
Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
ULTRA CAP	233.72	2.0	
KLA STOP	1,233.57	1.0	
CAUSTIC	38.41	1.0	
Defoam X	390.26	2.0	
ULTRA CAP	233.72	2.0	
Safety Checks			
Time	Type	Description	
12:00	Safety Meeting	HOUSEKEEPI...	
00:00	Safety Meeting	SETTING AND PULLING SLIPS	
Wellbores			
Wellbore Name		KO MD (mKB)	
Original Hole			



Daily Drilling

Report for: 10/2/2010
 Report #: 36.0, DFS: 23.63
 Depth Progress: 19.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,407.00mKB, 10/2/2010 13:15

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	13:15	1,407.00	1250.0	86	30.0	17.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
5.500	7.000	8.0	1.0	8.6		10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,700.000	100.000	1.300		8.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		3.00	63.00	159.00		

BHA #8, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
7	311.0mm, M4528, CK118	0.30	1-1-FC-A-E-0.00-FC-PR	860	1.4
Nozzles (mm)	String Length (m)		OD (mm)		
19.1/19.1/19.1	1,399.75		311.0		

String Components

REED M4528, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,387.00	1,406.00	44.00	24.00	1.7		28	100	12,000			
Original Hole	1,366.00	1,387.00	65.00	46.50	0.9		30	100	11,800			0.0



Daily Drilling

Report for: 10/2/2010
 Report #: 36.0, DFS: 23.63
 Depth Progress: 19.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 12	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 Morning Tour Notes:
 BACK LOAD WEATHERFORD SKID, 2 JOINTS 9 5/8 CASING AND VERTITRAK.
 INSPECT BRAKE LINKAGES
 CHECK MANIFOLD ALIGNMENT
 REVIEW JTAS 2-A HOUSEKEEPING,2-B CATWALK OPERATIONS,2-G MOVING DRILL PIPE FROM PIPE TUBS TO RACKS
 FUNCTIONED CROWN SAVER AT 0100HRS
 RIG SERVICE AT 0045HRS GREASED WASHPIPE,DRAWWORKS,SWIVEL AND CHECKED ALL OILS
 PIPE COUNT 77 IN HOLE 179 ON LOCATION TOTAL 256 CORRECT
 ACCUMULATOR FUNCTION TEST START PRESSURE 21500 KPA, CLOSE ANNULAR 32 SEC REMAINING PRESSURE 12500 KPA, CLOSE UPPER PIPE RAMS 6 SEC REMAINING PRESSURE 11500 KPA, CLOSE LOWER PIPE RAMS 6 SEC REMAINING PRESSURE 10500 KPA, OPEN HCR VALVE 2 SEC, REMAINING PRESSURE 10200 KPA, RECHARGE TIME 1 MIN 28 SEC, PRECHARGE 7000 KPA
 Day Tour Notes:
 VIS INSP BRAKE LINKAGE PINS STABBING W/ KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT BOP COMPONENTS
 JTA REVIEW 2-C RIG TONG OPERATION 2-B CATWALK OPERATION 6-H PIPE SPINNER USE
 PIPE IN HOLE@1300HR =78 ON LOCATION=178 TOTAL=256 CORRECT

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 FROM 1387M TO 1388M
00:45	01:00	0.25	1.00	7	RIG SERVICE	RIG SERVICE FUNCTION CROWN SAVER,FUNCTION UPPER/LOWER PIPE RAMS 6secs TO CLOSE
01:00	06:45	5.75	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1388M TO 1399M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	08:45	1.75	8.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1399M TO 1402M
08:45	09:00	0.25	9.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T MOTOR KILLS F/T CROWN SAVER&RESET
09:00	12:00	3.00	12.00	2	DRILL ACTUAL	DRILL 311MM HOLE F/1402M- 1406
12:00	12:30	0.50	12.50	2	DRILL ACTUAL	DRILL 311MM HOLE F/ 1406-1407
12:30	12:45	0.25	12.75	7	RIG SERVICE	RIG SERVICE GREASEDALL MOVING COMPONENTS CHECKED ALL OIL LEVELS F/T ANNULAR 32 SEC CLOSE OPEN
12:45	13:45	1.00	13.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO BIT TRIP
13:45	18:45	5.00	18.75	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@1400m-1262m710m 243m- 0m CAL=11.47 MEAS=12.65 DIFF=+1.18 F/T BLIND RAMS O.O.H 4SEC CLOSE OPEN
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	SAFETY MEETING WITH DIRECTIONAL PRIOR TO LAYING OUT TOOLS
19:15	22:45	3.50	22.75	20	DIR. WORK	DIRECTIONAL WORK
22:45	00:00	1.25	24.00	6	TRIPS	TRIP IN HOLE RUN 9in. AND 8in. COLLARS,LAY OUT 5ft.TONGS

AFE Number	Total AFE Amount
Daily Cost Total 62,418.00	Cum Cost To Date 2,538,095.54
Daily Mud Cost 2,715.25	Mud Additive Cost To Date 77,909.02
Depth Start (mKB) 1,387.00	Depth End (mKB) 1,406.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11		
Contractor STONEHAM DRILLING INC.	Rig Number 11	
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11		
Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
279.0		
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

2, GARDNER DENVER, PZ-11		
Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
279.0		
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
ULTRA CAP	233.72	3.0
BARITE-HALLIBU...	0.00	25.0
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
BARITE-HALLIBU...	0.00	50.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	
00:00	Safety Meeting	TRIPPING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/3/2010
 Report #: 37.0, DFS: 24.63
 Depth Progress: 53.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,439.00mKB, 10/3/2010 16:00												
Type	Time	Depth (mKB)	Density (kg/m ³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)						
KLA SHIELD	16:00	1,439.00	1250.0	84	31.0	15.500						
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)						
5.000	6.000	8.0	1.0	8.6		9.5						
MBT (kg/m ³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)						
		1,700.000	120.000	1.400		7.000						
Whole Mud Added (m ³)	Mud Lost to Hole (m ³)	Mud Lost to Surface (m ³)	Reserve Mud Volume (m ³)	Active Mud Volume (m ³)								
		3.00	65.00	156.00								
BHA #9, Drilling Assembly												
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...							
8	311.0mm, MS1816, JD7643	0.32	1-1-CT-T-X-0.00-CD-PP		3.3							
Nozzles (mm)	String Length (m)		OD (mm)									
	1,454.65		311.0									
String Components												
SMITH MS1816, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,407.00	1,438.00	31.00	6.75	4.6		15	117	24,000			
Original Hole	1,438.00	1,460.00	53.00	14.00	3.0		15	118	250,000			0.0



Daily Drilling

Report for: 10/3/2010
 Report #: 37.0, DFS: 24.63
 Depth Progress: 53.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland			
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25			
Weather CLEAR	Temperature (°C) 0	Road Condition FAIR	Hole Condition GOOD			
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD				
Operations Summary Morning Tour Notes: NO ACCIDENTS OR INCIDENTS FINISH IN THE HOLE WITH NEW BIT SAFETY MEETING DRILLED 1407-1460 M WORK ON MUD PUMPS 4.0 HOURS FUNCTION CROWN SAVER @ 0030 HRS CHECKED MANIFOLD ALIGNMENT CHECKED BRAKE LINKAGE REVIEWED JTAS 6-A SETTING AND PULLING SLIPS,6-4 WORKING ON MONKEY BOARD,6-H PIPE SPINNER USE PIPE COUNT 79 IN HOLE 177 ON LOCATION Day Tour Notes: VIS INSPECT BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/ KEY INSIDE BOP MANIFOLD VALVE ALIGNMENT JTA REVIEW 6-A SETTING AND PULLING SLIPS 2-C RIG TONG OPERATION PIPE IN HOLE@1200HR=80 ON LOCATION=176 TOTAL=256 CORRECT						
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	PICK UP JARS
00:30	01:30	1.00	1.50	6	TRIPS	TRIP IN HOLE FROM 217M TO 533M
01:30	02:00	0.50	2.00	20	DIR. WORK	DIRECTIONAL WORK PICK UP KELLY AND FUNCTION TEST VERTATRAK
02:00	03:45	1.75	3.75	6	TRIPS	TRIP IN HOLE FROM 533M TO 1387M
03:45	04:30	0.75	4.50	6	TRIPS	WASH TO BOTTOM
04:30	06:45	2.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1407M TO 1416M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	11:15	4.25	11.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1416M TO 1435M
11:15	11:30	0.25	11.50	25		OTHER CHANGE OUT HEAD IN PUMP#1
11:30	11:45	0.25	11.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION TEST H.C.R 3SEC TO OPEN
11:45	12:00	0.25	12.00	2	DRILL ACTUAL	DRILL 311MM HOLE F/1435M-1438M
12:00	15:30	3.50	15.50	5	COND MUD & CIRC	CHECK TORQUE ON LINERS AND TIGHTENED DUE TO HIGH PRESSURE ON PUMP#1 AND PUMP#2
15:30	17:15	1.75	17.25	2	DRILL ACTUAL	DRILL 311MM HOLE F/1438M- 1443M
17:15	17:30	0.25	17.50	7	RIG SERVICE	RIG SERVICE CHECKED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION TEST UPPER AND LOWER PIPE RAMS 4SEC TO CLOSE
17:30	18:45	1.25	18.75	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 1443M TO 1447M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING HANDOVER
19:00	21:00	2.00	21.00	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 1447M TO 1453M
21:00	21:15	0.25	21.25	7	RIG SERVICE	CHANGE CAP GASKET PUMP#2
21:15	21:30	0.25	21.50	7	RIG SERVICE	REPLACE POP VALVE PINS
21:30	23:45	2.25	23.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1453M TO 1460M
23:45	00:00	0.25	24.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN, CYCLE PUMPS FOR VERTATRAK

AFE Number		Total AFE Amount	
Daily Cost Total 114,793.00		Cum Cost To Date 2,652,888.54	
Daily Mud Cost 2,871.79		Mud Additive Cost To Date 80,780.81	
Depth Start (mKB) 1,407.00		Depth End (mKB) 1,460.00	
Target Formation Aguathuna		Target Depth (mKB) 3,250.00	
Last Casing String Surface, 570.00mKB			
Daily Contacts			
Job Contact		Mobile	
Randy Kavanagh		709 363 7261	
Well Site Office		709 636 4147	
Bill Williams		709 765 1074	
Ian O'leary		709 725 4365	
Tim Kennedy		780 913 1869	
STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.		Rig Number 11	
Rig Supervisor Martin Gould		Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)		Stroke (mm)	Vol/Stk OR (m³/...)
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)		Stroke (mm)	Vol/Stk OR (m³/...)
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			
Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
DEFOAM X	390.26	1.0	
KLA STOP	1,233.57	1.0	
Defoam X	390.26	2.0	
ULTRA CAP	233.72	2.0	
Safety Checks			
Time	Type	Description	
12:00	Safety Meeting	DRILLING	
00:00	Safety Meeting	MIXING CHEMICALS	
Wellbores			
Wellbore Name	KO MD (mKB)		
Original Hole			



Daily Drilling

Report for: 10/4/2010
 Report #: 38.0, DFS: 25.63
 Depth Progress: 11.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,471.00mKB, 10/4/2010 16:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	16:30	1,471.00	1250.0	84	36.0	15.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
5.000	7.000	8.0	1.0	8.5		10.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,700.000	100.000	1.400		8.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		1.00	67.00	168.00		

BHA #9, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
8	311.0mm, MSI816, JD7643	0.32	1-1-CT-T-X-0.00-CD-PP		3.3
Nozzles (mm)	String Length (m)	OD (mm)			
	1,454.65	311.0			

String Components

SMITH MSI816, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,460.00	1,471.00	64.00	19.50	2.0		15	123	26,500			0.0



Daily Drilling

Report for: 10/4/2010
 Report #: 38.0, DFS: 25.63
 Depth Progress: 11.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 1	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time PULL OUT OF HOLE AND CHANGE VERTITRAK		Operations Next Report Period CHANGE VERTITRAK AND RIH, PRESSURE TEST	

Operations Summary
Morning Tour Notes:
 DRILLED FROM 1460 M TO 1471 M.
 TRIP OUT DUE TO HIGH PUMP PRESSURE AND ROP
 3 POINT ROLLER REAMER WAS UNDER GAUGE
 DOG SUB WAS 3 MM UNDER GAUGE
 BIT WAS IN GAUGE, CUTTERS GOOD BUT 4 NOZZLES WERE PLUGGED WITH SHALE, SAND AND STATOR RUBBER.
 RIH TO SHOE
 NEED LARGE JAW FOR STONEHAM FOR BREAKING OUT DOG SUB 14 INCH.
 PUMP OUT SEWAGE AND CLEAN MUD TANKS

REVIEWED JTAS 2-B CATWALK OPERATIONS,2-C RIG TONG OPERATION,2-D MOUSEHOLE CONNECTIONS WITH DRILL PIPE
 CHECKED BRAKE LINKAGE
 CHECKED MANIFOLD ALIGNMENT
 CHECKED CROWN SAVER @ 2300 HRS

Day Tour Notes:
 VIS INSP BRAKE LINKAGE PINS STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE DEADMAN ANCHOR
 PIPE IN HOLE@1200HR=82ON LOCATION=174 TOTAL =256 CORRECT

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 FROM 1460M TO 1462M
01:00	01:30	0.50	1.50	7	RIG SERVICE	REPLACE CAP GASKET ON PUMP#2
01:30	05:00	3.50	5.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1462M TO 1469M
05:00	06:45	1.75	6.75	25		TROUBLE SHOOT PRESSURE PROBLEMS
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	DRILL 311mm HOLE FROM 1469M TO 1471
08:00	08:45	0.75	8.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE DUE PRESSURE PROBLEMS
08:45	12:00	3.25	12.00	6	TRIPS	TRIP OUT OF HOLE W/ FLOW CHECKS@1456M- 1300M- 250M
12:00	14:15	2.25	14.25	6	TRIPS	CONT TRIP OUT OF HOLE W/FLOW CHECKS@250M-0M CALC=12.29 MEAS=13.28 DIFF=+99 FUNCTION BLIND RAMS O.O.H 4SEC CLOSE OPEN
14:15	14:30	0.25	14.50	21	SAFETY MEETING	SAFETY MEETING W/CREW BAKER HUGH ON SITE SUPERVISORS PRIOR TO LAYING DIRECTIONAL TOOLS DOWN
14:30	16:15	1.75	16.25	20	DIR. WORK	DIRECTIONAL WORK LAY OUT ROLLER REAMER,VERTITRAK,CHECKED FILTER SUB AND FLOAT
16:15	16:30	0.25	16.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION UPPER PIPE RAM 5SEC CLOSE OPEN
16:30	17:45	1.25	17.75	20	DIR. WORK	DIRECTIONAL WORK PICK UP NEW ROLLAR REAMER, VERTITRAK,BIT
17:45	18:45	1.00	18.75	6	TRIPS	TRIP IN HOLE W/FLOW CHECK@ 121M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	20:00	1.00	20.00	6	TRIPS	CONT TRIP IN HOLE W/FLOW CHECKS@ 380M FUNCTION CROWN SAVER AND RESET FLOW CHECK@ 380M
20:00	21:00	1.00	21.00	9	CUT OFF DRILLING LINE	SLIP/CUT DRILLING LINE (11.4M)
21:00	00:00	3.00	24.00	5	COND MUD & CIRC	CLEAN MUD TANKS, CONTINUE TO MONITOR WELL

AFE Number	Total AFE Amount
Daily Cost Total 137,321.00	Cum Cost To Date 2,790,209.54
Daily Mud Cost 2,910.20	Mud Additive Cost To Date 83,691.01
Depth Start (mKB) 1,460.00	Depth End (mKB) 1,471.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

STONEHAM DRILLING INC., 11		
Contractor STONEHAM DRILLING INC.	Rig Number 11	
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11		
Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s... Eff (%)

2, GARDNER DENVER, PZ-11		
Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s... Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
CAUSTIC	38.41	1.0
Defoam X	390.26	2.0
ULTRA CAP	233.72	2.0
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
BARITE-HALLIBU...	0.00	42.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	
00:00	Safety Meeting	CLEANING TANKS

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/5/2010
 Report #: 39.0, DFS: 26.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,471.00mKB, 10/5/2010 00:00

Type 1700	Time 00:00	Depth (mKB) 1,471.00	Density (kg/m³) 1255.0	Funnel Viscosity (s/L) 87	PV Override (cp) 34.0	YP Override (Pa) 16.500
Gel 10 sec (Pa) 5.000	Gel 10 min (Pa) 8.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 8.5	Sand (%)	Solids (%) 10.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,800.000	Calcium (mg/L) 100.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 9.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 18.00	Reserve Mud Volume (m³) 67.00	Active Mud Volume (m³) 151.00		

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
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Nozzles (mm)	String Length (m)	OD (mm)
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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
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Daily Drilling

Report for: 10/5/2010
 Report #: 39.0, DFS: 26.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 9	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING AHEAD @ 1475M		Operations Next Report Period DRILL AHEAD	

Operations Summary
 Morning Tour Notes:
 NO ACCIDENTS OR INCIDENTS.
 HAD RIG TOURS YESTERDAY AS WELL AS CBC TV
 CLEAN TANKS
 RUN IN HOLE WITH NEW BIT
 MWD FAILED SHALLOW PULSE TEST, POH AND CHANGE OUT VERTI TRAC
 15 DAY PRESSURE TEST, BOP'S AND SURFACE EQUIPMENT
 CHANGE OUT BHA AND RUN IN HOLE WITH NEW BIT
 MWD PASSED SHALLOW PULSE TEST
 CHECKED MANIFOLD ALIGNMENT
 CHECKED DEADMAN ANCHOR
 CHECKED STABBING VALVE,INSIDE BOP
 REVIEWED JTAS 6-A SETTING AND PULLING SLIPS,6-E PULLING OUT OFF HOLE WITH DRILL STRING,6-4
 WORKING ON MONKEY BOARD,22-3 CLEANING MUD TANKS
 PICK UP VERTITRAK AND RIH

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 CHANGE OIL ON FLOOR MOTOR/ FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
00:15	01:15	1.00	1.25	5	COND MUD & CIRC	CLEAN OUT TANKS
01:15	02:00	0.75	2.00	6	TRIPS	TRIP IN HOLE FROM 380M TO 565M
02:00	05:00	3.00	5.00	20	DIR. WORK	PICK UP KELLY, FUNTION TEST VERTATRAK PICK UP SINGLE TEST OUTSIDE OF SHOE,CHANGE OUT VERTATRAK SENSOR
05:00	06:45	1.75	6.75	6	TRIPS	MIX AND PUMP PILL, TRIP OUT OF HOLE FROM 578M TO 217M WITH FLOW CHECKS AT 578M,327M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
07:00	08:30	1.50	8.50	6	TRIPS	TRIP OUT OF HOLE W/FLOW CHECKS@217M 0M CALC=8.51 MEAS=10.61 DIFF=+2.1 FUNCTION BLIND RAMS O.O.H 4SEC CLOSE OPEN
08:30	08:45	0.25	8.75	21	SAFETY MEETING	SAFETY MEETING W/CREW AND BAKER HAND ON SITE SUPERVISORS PRIOR TO LAYING DOWN B.H.A
08:45	09:45	1.00	9.75	20	DIR. WORK	DIRECTIONAL WORK BREAK DOWN ROLLER REAMER VERTITRAK
09:45	10:15	0.50	10.25	15	TEST B.O.P.	PULL WEAR BUSHING
10:15	10:30	0.25	10.50	21	SAFETY MEETING	SAFETY MEETING W/CREW B.J PRESSURE TESTER ONSITE SUPERVISORS PRIOR TO PRESSUR TESTING
10:30	12:00	1.50	12.00	15	TEST B.O.P.	PRESSURE TEST BOPS TEST#1UPPER PIPE RAMS/INSIDE BOPVALVE/HYDRAULI/H.CR VALVE 21000KPA HIGH 1500KPA LOW 10MIN EACH TEST#2 ANNULAR/OUTSIDE KILL VALVE MANUAL HCR AND BLIND RAMS 21000KPA HIGH 1500KPA LOW 10MIN EACH
12:00	18:00	6.00	18.00	15	TEST B.O.P.	CONT TEST BOP. TEST#4 LOWER PIPE RAMS AND CHOKE LINE21000KPA HIGH 1500KPA LOW 10MIN EACH PICK UP KELLY PRESSURE TEST#5 INSIDE BOP STABBING VALVE UPPER AND LOWER KELLY VALVES
18:00	18:45	0.75	18.75	25		CHANGE OUT KELLY STRIPPER
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER MEETING
19:00	21:15	2.25	21.25	20	DIR. WORK	DIRECTIONAL WORK PICK UP VERTITRAK REAMER MAKE UP BIT
21:15	22:45	1.50	22.75	6	TRIPS	TRIP IN HOLE FROM 15M TO 470M
22:45	23:00	0.25	23.00	20	DIR. WORK	DIRECTIONAL WORK PICK UP KELLY TEST VERTITRAK
23:00	23:15	0.25	23.25	5	COND MUD & CIRC	CONDITION MUD
23:15	00:00	0.75	24.00	15	TEST B.O.P.	BLOW OUT MANIFOLD LINE ,RIG OUT PRESSURE TESTER

AFE Number	Total AFE Amount
Daily Cost Total 59,359.00	Cum Cost To Date 2,849,568.54
Daily Mud Cost	Mud Additive Cost To Date 83,691.01
Depth Start (mKB) 1,471.00	Depth End (mKB) 1,471.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

STONEHAM DRILLING INC., 11		
Contractor STONEHAM DRILLING INC.	Rig Number 11	
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11		
Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd	Strokes (s... Eff (%)
No		

2, GARDNER DENVER, PZ-11		
Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd	Strokes (s... Eff (%)
No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
BARITE-HALLIBU...	0.00	42.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	
00:00	Safety Meeting	TRIPPING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/6/2010
Report #: 40.0, DFS: 27.63
Depth Progress: 16.00

Well Name: NALCOR ET.AL FINNEGAN #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	1,471.00	1,479.00	8.00	9.25	0.9		15	147	26,500			0.0
Original Hole	1,479.00	1,487.00	16.00	20.50	0.7		15	147	24,100			0.0



Daily Drilling

Report for: 10/6/2010
 Report #: 40.0, DFS: 27.63
 Depth Progress: 16.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) 2	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 Morning Tour Notes:
 NO ACCIDENTS OR INCIDENTS
 NALCOR FILM CREW WERE ON SITE
 FINISH TRIP IN THE HOLE
 DRILL 1471-1487
 SENIOR PERSONNEL FROM STONEHAM DRILLING VISIT RIG SITE FOR INSPECTION.
 CHECKED BRAKES & LINKAGES
 CHECKED STABBING VALVE, INSIDE BOP
 REVIEWED 2-B CATWALK OPERATIONS,2-C RIG TONG OPERATION,2-C2 HANDING 5ft. TONGS
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 F/T FLARE TANK IGNITER
 Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT

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.	RIG OUT PRESSURE TESTER
00:30	02:30	2.00	2.50	6	TRIPS	TRIP IN HOLE FROM 470m - 1471m
02:30	06:45	4.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1470m - 1474m
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 FROM 1475m - 1479m
12:00	12:15	0.25	12.25	21	SAFETY MEETING	DRILLS/BOP, ETC. , B.O.P. DRILL HELD WITH CREW , DISCUSSED CREW DUTIES AND KICK WARNING SIGNS
12:15	18:45	6.50	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1479m - 1483m
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 311mm HOLE F/ 1483m - 1486M
21:15	21:30	0.25	21.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION UPPERAN LOWER PIPE RAMS 4SEC CLOSE OPEN
21:30	00:00	2.50	24.00	2	DRILL ACTUAL	DRILL 311MM HOLE F/1486M- 1487M

1,475.00mKB, 10/6/2010 17:00						
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	17:00	1,475.00	1235.0	73	28.0	13.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
4.000	5.000	8.0	1.0	8.4	0.3	9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
	1,600.000	80.000	1.200			7.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		7.00	71.00	170.00		

BHA #10, Drilling Assembly						
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...	
9	311.0mm, MSI816, JX1725	0.29	2-2-WT-A-XO-1.00-CT-PR	196	0.7	
Nozzles (mm)	String Length (m)		OD (mm)			
7.9/7.9/7.9/7.9	1,481.49		242.0			
String Components						
SMITH MSI816, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles						
Comment						

AFE Number	Total AFE Amount
Daily Cost Total 90,415.10	Cum Cost To Date 2,939,983.64
Daily Mud Cost 2,437.44	Mud Additive Cost To Date 86,128.45
Depth Start (mKB) 1,471.00	Depth End (mKB) 1,487.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Well Site Office	709 636 4147

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/...)	
	279.0		
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/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
ULTRA CAP	233.72	1.0
SODIUM BICARBONATE		2.0
SODA ASH	29.57	2.0
WALNUT		1.0
SODA ASH	29.57	4.0
ULTRA CAP	233.72	7.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	
00:00	Safety Meeting	BOP DRILL

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/7/2010
 Report #: 41.0, DFS: 28.63
 Depth Progress: 7.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,494.00mKB, 10/7/2010 15:30												
Type	Time	Depth (mKB)	Density (kg/m ³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)						
KLA SHIELD	15:30	1,494.00	1250.0	78	29.0	13.500						
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)						
4.500	6.000	8.0	1.0	8.8	0.3	10.0						
MBT (kg/m ²)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)						
		1,800.000	80.000	1.500		7.000						
Whole Mud Added (m ³)	Mud Lost to Hole (m ³)	Mud Lost to Surface (m ³)	Reserve Mud Volume (m ³)	Active Mud Volume (m ³)								
		4.00	66.00	173.00								
BHA #10, Drilling Assembly												
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...							
9	311.0mm, MSI816, JX1725	0.29	2-2-WT-A-XO-1.00-CT-PR	196	0.7							
Nozzles (mm)	String Length (m)		OD (mm)									
7.9/7.9/7.9/7.9	1,481.49		242.0									
String Components												
SMITH MSI816, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,487.00	1,493.00	22.00	31.75	0.5		18	145	24,100			0.0
Original Hole	1,493.00	1,494.00	23.00	33.50	0.6		18	114	18,000			0.0



Daily Drilling

Report for: 10/7/2010
Report #: 41.0, DFS: 28.63
Depth Progress: 7.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 5	Road Condition POOR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
Morning Tour Notes:
DRILL 1487-1494
CIRC+COND MUD PRIOR TO TRIP TO 1250 KG/M3
SAFETY MEETING WITH BRUCE JONES PRES & CEO OF STONEHAM
TRIP FOR BIT
BIT WAS WORN WITH A FEW CHIPPED CUTTER, CHANGE BIT
3 PT RR & INSTALL DOG SUB
SURFACE TEST BAKER'S VERTITRAC & TRIP IN THE HOLE
2 LOW SPEED VERTI TRACKS ARRIVED LAST NIGHT
NO ACCIDENTS OR INCIDENTS
VIS INSP BRAKE LINKAGE PINS STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT DEADMAN ANCHOR
JTA REVIEW 2-C RIGTONG OPERATION 2-A HOUSEKEEPING 6-L FLOW CHECKS
PIPE IN HOLE@2400HR=84 ON LOCATION=172 TOTAL=256 CORRECT

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 FROM 1487m - 1488m
03:15	03:30	0.25	3.50	21	SAFETY MEETING	DRILLS/BOP, ETC. DISUSED WELL CONTROL PROCEDURES. WITH CREW ONSITE SUPERVISORS
03:30	04:30	1.00	4.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1488m - 1489m
04:30	04:45	0.25	4.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION ANNULAR 32SEC CLOSE OPEN
04:45	06:45	2.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1489m - 1491m
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	DRILL 311mm HOLE FROM 1491m - 1493m
12:00	13:45	1.75	13.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1493m - 1494m
13:45	15:30	1.75	15.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE / BRING MUD WEIGHT UP TO 1250kg/m ³
15:30	15:45	0.25	15.75	21	SAFETY MEETING	SAFETY MEETING , REVIEW ALL JTAS ON TRIPPING
15:45	18:45	3.00	18.75	6	TRIPS	TRIP OUT OF HOLE WITH 10 MINUTE FLOW CHECKS @ 1481m , 1399m , 737m & 545m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	21:30	2.50	21.50	6	TRIPS	CONTINUE TO TRIP OUT OF HOLE W/FLOW CHECKS@227-0M FILL VOLUME CALCULATED=12.55 MEASURED=13.5 DIFFERENCE=+.95 FUNCTION BLIND RAMS 6SEC TO CLOSE WHILE OUT OF HOLE
21:30	21:45	0.25	21.75	21	SAFETY MEETING	SAFETY MEETING PRIOR TO DIRTECTIONAL WORK WITH CREW BAKER ONSITE SUPERVISORS J.T.A DISSUED
21:45	23:30	1.75	23.50	20	DIR. WORK	DIRECTIONAL WORK BREAK DOWN BIT LAY OUT ROLLER REAMER CHECK FILTER SUB&FLOAT PICK UP NEW ROLLER REAMER .INSTALL NOZZLES MAKE UP BIT AND DOG SUB
23:30	00:00	0.50	24.00	6	TRIPS	TRIP IN HOLE

AFE Number	Total AFE Amount
Daily Cost Total 103,982.00	Cum Cost To Date 3,043,965.64
Daily Mud Cost 3,569.04	Mud Additive Cost To Date 89,697.49
Depth Start (mKB) 1,487.00	Depth End (mKB) 1,494.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Bill Williams	709 765 1074

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m ³ /...)	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m ³ /...)	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
Defoam X	390.26	1.0	
KLA STOP	1,233.57	1.0	
CAUSTIC	38.41	1.0	
BARITE-HALLIBU...	0.00	84.0	
BARITE-MI	22.70	84.0	

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	WORKING IN EXTREMELY HIGH WINDS
00:00	Safety Meeting	PULLING SLIPS

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/8/2010
 Report #: 42.0, DFS: 29.63
 Depth Progress: 21.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #11, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
10	311.0mm, <Model?>, 220112	0.29	8-8-BT-A-X-0.00-WT-PR	284	0.9
Nozzles (mm)		String Length (m)		OD (mm)	
9.5/9.5/9.5/9.5		1,508.95		311.2	

String Components
 REED, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,494.00	1,501.00	7.00	7.00	1.0		16	148	25,700			0.0
Original Hole	1,501.00	1,515.00	21.00	18.75	1.2		21	148	26,800			0.0



Daily Drilling

Report for: 10/8/2010
 Report #: 42.0, DFS: 29.63
 Depth Progress: 21.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 3	Road Condition FAIR	Hole Condition GOOD

Operations at Report Time: DRILLING AHEAD
 Operations Next Report Period: DRILLING AHEAD

Operations Summary
 Morning Tour Notes:
 NO ACCIDENTS OR INCIDENTS.
 Time log comments:
 FINISH IN THE HOLE
 DRILL 311mm HOLE FROM 1494m - 1515m.
 CASING EQUIPMENT ARRIVED ON LOCATION
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER @ 830 HRS
 DRILL PIPE COUNT @ 1200 HRS - 85 JOINTS IN HOLE , 171 JOINTS ON RACKS , 256 TOTAL JOINTS
 Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	6	TRIPS	CONTINUE TRIP IN HOLE WITH FLOW CHECKS @ 356m - SHALLOW TEST VERTITRAK
01:15	03:30	2.25	3.50	6	TRIPS	CONTINUE TRIP IN HOLE WITH FLOW CHECKS@ 1018m & 1450m
03:30	04:30	1.00	4.50	3	REAMING	REAM AND WASH FROM 1480m - 1494m
04:30	06:45	2.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE PATTERN BIT FROM 1494m - 1497m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	08:15	1.25	8.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1497m - 1498m
08:15	08:30	0.25	8.50	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVIN PARTS / BLOCKS / CROWN AND CHECKED ALL OIL LEVELS , FUNCTION TEST ANNULAR < 34 SECONDS TO CLOSE >
08:30	12:00	3.50	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1498m - 1501m
12:00	20:45	8.75	20.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1501m - 1512M
20:45	21:00	0.25	21.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION ANNULAR 32 SEC CLOSE OPEN
21:00	00:00	3.00	24.00	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 1512M- 1515M

1,504.00mKB, 10/8/2010 16:00

Type KLA SHIELD	Time 16:00	Depth (mKB) 1,504.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 78	PV Override (cp) 29.0	YP Override (Pa) 13.500
Gel 10 sec (Pa) 4.500	Gel 10 min (Pa) 7.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.1	Sand (%) 0.3	Solids (%) 10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,850.000	Calcium (mg/L) 160.000	Pf (mL/mL) 1.600	Pm (mL/mL)	Gel 30 min (Pa) 8.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 2.00	Reserve Mud Volume (m³) 64.00	Active Mud Volume (m³) 174.00		

AFE Number	Total AFE Amount
Daily Cost Total 64,984.00	Cum Cost To Date 3,108,949.64
Daily Mud Cost 428.67	Mud Additive Cost To Date 90,126.16
Depth Start (mKB) 1,494.00	Depth End (mKB) 1,515.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

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

1, GARDNER DENVER, PZ-11		
Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...) 279.0
Pres (kPa)	Slow Spd No	Strokes (s... Eff (%)

2, GARDNER DENVER, PZ-11		
Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...) 279.0
Pres (kPa)	Slow Spd No	Strokes (s... Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
CAUSTIC	38.41	1.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	LOADER OPERATION
00:00	Safety Meeting	17-1 LOADER OPERATION

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/9/2010
 Report #: 43.0, DFS: 30.63
 Depth Progress: 7.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 3	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 Tour Notes:
 NO ACCIDENTS OR INCIDENTS.

DRILL 311mm HOLE FROM 1515 m to 1523m.
 CIRC BTMS UP, FLOW CHECK AND TRIP FOR BIT
 CHANGE OUT PDC FOR INSERT
 RUN IN HOLE
 BREAK CIRC
 MAXIMUM GAS WAS 1605 UNITS
 DRILL AHEAD TO 1524
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER @ 830 HRS
 DRILL PIPE COUNT @ 1200 HRS - 85 JOINTS IN HOLE , 171 JOINTS ON RACKS , 256 TOTAL JOINTS

Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

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	DRILL 311mm HOLE FROM 1515m - 1519m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	11:30	4.50	11.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1519m - 1523m
11:30	12:00	0.50	12.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTOMS UP PRIOR TO PULL OUT OF HOLE FOR BIT
12:00	12:15	0.25	12.25	5	COND MUD & CIRC	CONTINUE TO CONDITION MUD & CIRCULATE BOTTOMS UP
12:15	16:30	4.25	16.50	6	TRIPS	TRIP OUT OF HOLE WITH 10 MINUTE FLOW CHECKS @ 1510m , 1428m , 767m & 547m
16:30	16:45	0.25	16.75	21	SAFETY MEETING	SAFETY MEETING WITH BAKER HUGHES INTEQ
16:45	18:45	2.00	18.75	20	DIR. WORK	DIRECTIONAL WORK , LAYDOWN VERTITRAK TO PICK UP LOW SPEED VERTITRAK , BREAK BIT AND MAKE UP NEW BIT , FLOW CHECK WHILE OUT OF HOLE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	22:30	3.50	22.50	6	TRIPS	TRIP IN HOLE WITH FLOW CHECKS@356M 1127M-1514M
22:30	23:15	0.75	23.25	3	REAMING	REAM & CLEAN TO BOTTOM FROM- 1509M-1523M
23:15	00:00	0.75	24.00	2	DRILL ACTUAL	DRILL 311MM HOLE PATTERN BIT FROM-1523M- 1524M

1,523.00mKB, 10/9/2010 14:00							
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)	
KLA SHIELD	14:00	1,523.00	1250.0	74	31.0	13.500	
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filterate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)	
5.000	8.000	8.0	1.0	8.6	0.3	10.0	
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)	
		1,800.000	100.000	1.400		10.000	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)			
		17.00	44.00	180.00			

AFE Number	Total AFE Amount
Daily Cost Total 80,654.00	Cum Cost To Date 3,189,603.64
Daily Mud Cost 1,233.57	Mud Additive Cost To Date 91,359.73
Depth Start (mKB) 1,515.00	Depth End (mKB) 1,522.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11		
Contractor STONEHAM DRILLING INC.	Rig Number 11	
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11		
Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
	279.0	
Pres (kPa)	Slow Spd	Strokes (s... Eff (%)
	No	

2, GARDNER DENVER, PZ-11		
Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)
	279.0	
Pres (kPa)	Slow Spd	Strokes (s... Eff (%)
	No	

Mud Additive Amounts		
Description	Cost /(unit)	Consumed
KLA STOP	1,233.57	1.0
BARITE-HALLIBU...	0.00	42.0
BARITE-HALLIBU...	0.00	18.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/10/2010
 Report #: 44.0, DFS: 31.63
 Depth Progress: 49.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #12, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
11	311.0mm, GF128B, PR1625	0.34	2-2-WT-A-E-0.00-ER-FM	579	2.3

Nozzles (mm)	String Length (m)	OD (mm)
14.3/14.3/14.3/11.1	1,591.16	311.2

String Components

SMITH GF128B, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,522.00	1,540.00	18.00	11.50	1.6		13	75	21,400			0.0
Original Hole	1,540.00	1,571.00	49.00	23.00	2.7		24	76	21,400			0.0



Daily Drilling

Report for: 10/10/2010
Report #: 44.0, DFS: 31.63
Depth Progress: 49.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN AND WIND	Temperature (°C) 5	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

AFE Number	Total AFE Amount
Daily Cost Total 53,099.00	Cum Cost To Date 3,242,702.64
Daily Mud Cost 1,662.24	Mud Additive Cost To Date 93,021.97
Depth Start (mKB) 1,522.00	Depth End (mKB) 1,571.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00

Operations Summary
Tour Notes:

NO ACCIDENTS OR INCIDENTS.
DRILL 311mm HOLE FROM 1524 m to 1571m.
FUNCTION TEST BOP
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT DEGASSER LINE
J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
GREASED TRAVELING BLOCKS AND CROWN
VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
CHECKED MECHANICAL CROWN SAVER
DRILL PIPE COUNT @ 0700 HRS - 91 JOINTS IN HOLE , 165 JOINTS ON RACKS , 256 TOTAL JOINTS
Day Tour Notes:
CHECKED BRAKES AND LINKAGES
FUNCTION TEST FLARE TANK IGNITER
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
CHECKED STABBING VALVE AND INSIDE B.O.P.

Last Casing String
Surface, 570.00mKB

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Bill Williams	709 765 1074

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No			

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 311mm HOLE FROM 1524m - 1525m
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE CHECKED DRIVE LINE BOLTS GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION UPPER PIPE RAMS 4SEC CLOSE OPEN
02:45	06:45	4.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1525m - 1530m
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 FROM 1530m - 1540m
12:00	17:15	5.25	17.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1540m - 1553m
17:15	17:30	0.25	17.50	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST ANNULAR < 34 SECONDS TO CLOSE > AND HCR VALVE < 2 SECONDS TO OPEN >
17:30	18:45	1.25	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1553m - 1555m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1555m - 1571M

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
CAUSTIC	38.41	1.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	EMERGENCY RESPONSE PROCEDURES
00:00	Safety Meeting	HOUSEKEEPI...

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	

1,550.00mKB, 10/10/2010 16:00						
Type KLA SHIELD	Time 16:00	Depth (mKB) 1,550.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 78	PV Override (cp) 34.0	YP Override (Pa) 13.500
Gel 10 sec (Pa) 5.500	Gel 10 min (Pa) 9.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%)	Solids (%) 9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,800.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.600	Pm (mL/mL)	Gel 30 min (Pa) 11.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 12.00	Reserve Mud Volume (m³) 39.00	Active Mud Volume (m³) 177.00		



Daily Drilling

Report for: 10/11/2010
 Report #: 45.0, DFS: 32.63
 Depth Progress: 36.00

Well Name: NALCOR ET.AL FINNEGAN #1

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
23:45	00:00	0.25	24.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION ANNULAR 33SEC CLOSE OPEN

1,600.00mKB, 10/11/2010 16:00						
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	16:00	1,600.00	1250.0	73	33.0	13.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
5.000	8.000	8.0	1.0	9.0	0.3	9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,950.000	80.000	1.600		10.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		9.00	50.00	179.00		

BHA #13, Drilling Assembly					
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
12	311.0mm, MSI616HEPX, JY4796	0.34	2-3-CT-A-X-0.00-LT-PR	196	2.9
Nozzles (mm)			String Length (m)	OD (mm)	
7.9/7.9/7.9/7.9			1,659.72	311.2	
String Components					
SMITH MSI616HEPX, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,600.00	1,607.00	7.00	1.00	7.0		18	80	0			0.0



Daily Drilling

Report for: 10/11/2010
Report #: 45.0, DFS: 32.63
Depth Progress: 36.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLOUDY & RAIN	Temperature (°C) 5	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
Tour Notes:

NO ACCIDENTS OR INCIDENTS.
 DRILL 311mm HOLE FROM 1571m TO 1600M.
 CIRC BTMS UP
 TRIP OUT
 LAY OUT TRI CONE AND MED SPEED BAKER MTR
 PICK UP SMITH PDC MDI616
 TRIP IN AND SHALLOW PULSE TEST MWD
 FINISH IN THE HOLE
 DRILL AHEAD 1600-1607
 FUNCTION TEST BOP
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER
 DRILL PIPE COUNT @ 0700 HRS - 95 JOINTS IN HOLE , 161 JOINTS ON RACKS , 256 TOTAL JOINTS

Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

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 FROM 1571m - 1580M
03:45	04:00	0.25	4.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION UPPER PIPE RAMS AND LOWER PIPE RAMS 4 SEC,CLOSE OPEN
04:00	06:45	2.75	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1580m - 1588m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	11:00	4.00	11.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1588m - 1600m
11:00	11:45	0.75	11.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTTOMS UP SAMPLE
11:45	12:00	0.25	12.00	21	SAFETY MEETING	SAFETY MEETING , REVIEW ALL JTAS ON TRIPPING
12:00	16:00	4.00	16.00	6	TRIPS	TRIP OUT OF HOLE WITH 10 MINUTE FLOW CHECKS @ 1592m , 1483m , 795m , 354m & OUT OF HOLE
16:00	16:15	0.25	16.25	21	SAFETY MEETING	SAFETY MEETING WITH BAKER HUGHES INTEQ
16:15	18:45	2.50	18.75	20	DIR. WORK	DIRECTIONAL WORK , LAY OUT LOW SPEED VERTITRAK TO PICK UP MEDIUM SPEED VERTITRAK , BREAK BIT AND MAKE UP NEW BIT , CHECK FILTER AND FLOAT
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	20:15	1.25	20.25	6	TRIPS	TRIP IN HOLE WITH FLOW CHECKS@356M
20:15	20:45	0.50	20.75	20	DIR. WORK	DIRECTIONAL WORK SHALLOW TEST VERTITRAK
20:45	22:30	1.75	22.50	6	TRIPS	CONT TRIP IN HOLE WITH FLOW CHECKS@ 963M- 1595M
22:30	22:45	0.25	22.75	3	REAMING	WASH&CLEAN TO BOTTOM FROM 1594M-1600M
22:45	23:45	1.00	23.75	2	DRILL ACTUAL	DRILL 311MM HOLE PATTERN BIT FROM 1600M- 1607M

AFE Number	Total AFE Amount
Daily Cost Total 138,185.00	Cum Cost To Date 3,380,887.64
Daily Mud Cost 3,439.26	Mud Additive Cost To Date 96,461.23
Depth Start (mKB) 1,571.00	Depth End (mKB) 1,607.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Bill Williams	709 765 1074

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
SODA ASH	29.57	1.0
ULTRA CAP	233.72	5.0
Defoam X	390.26	1.0
BARITE-MI	22.70	10.0
BARITE-HALLIBU...	0.00	32.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	CATWALK OPERATIONS

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/12/2010
 Report #: 46.0, DFS: 33.63
 Depth Progress: 57.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #13, Drilling Assembly					
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
12	311.0mm, MSI616HEPX, JY4796	0.34	2-3-CT-A-X-0.00-LT-PR	196	2.9
Nozzles (mm)		String Length (m)		OD (mm)	
7.9/7.9/7.9/7.9		1,659.72		311.2	
String Components					
SMITH MSI616HEPX, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), X/O, HWDP(4.5 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	1,607.00	1,651.00	51.00	12.50	3.8		20	147	27,000			0.0
Original Hole	1,651.00	1,664.00	64.00	21.75	1.4		24	107	17,700			0.0



Daily Drilling

Report for: 10/12/2010

Report #: 46.0, DFS: 33.63

Depth Progress: 57.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 5	Road Condition FAIR	Hole Condition GOOD

Operations at Report Time
PULL OUT OF HOLE

Operations Next Report Period
CHANGE BIT AND VERTITRAK RUN IN HOLE

Operations Summary
Tour Notes:

NO ACCIDENTS OR INCIDENTS.
 DRILL 311mm HOLE FROM 1607m TO 1664m
 CIRCULATE BOTTOMS UP
 PULL OUT OF HOLE FOR BIT
 VISIT FROM BRENT SELLAR W NALCOR, TROY DUFFY + MILTON CREWE W GOVT OF NFLD
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER
 DRILL PIPE COUNT @ 0700 HRS - 95 JOINTS IN HOLE , 161 JOINTS ON RACKS , 256 TOTAL JOINTS
 Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

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 FROM 1607m - 1635m
04:00	04:15	0.25	4.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION UPPER PIPE RAMS 4SEC CLOSE OPEN
04:15	06:45	2.50	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1635m - 1646m
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 FROM 1646m - 1651m
12:00	18:45	6.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1651m - 1661m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
19:00	20:15	1.25	20.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1661m - 1662M
20:15	20:30	0.25	20.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION LOWER PIPE RAMS 4SEC CLOSE OPEN
20:30	21:45	1.25	21.75	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 1662M- 1664M
21:45	22:15	0.50	22.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO BIT TRIP
22:15	00:00	1.75	24.00	6	TRIPS	TRIP OUT OF HOLE WITH FLOW CHECKS@

1,657.00mKB, 10/12/2010 16:00

Type KLA SHIELD	Time 16:00	Depth (mKB) 1,657.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 79	PV Override (cp) 35.0	YP Override (Pa) 13.000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 9.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.2	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,050.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.600	Pm (mL/mL)	Gel 30 min (Pa) 11.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 11.00	Reserve Mud Volume (m³) 34.00	Active Mud Volume (m³) 184.00		

AFE Number	Total AFE Amount
Daily Cost Total 54,852.00	Cum Cost To Date 3,435,739.64
Daily Mud Cost 1,588.43	Mud Additive Cost To Date 98,049.66
Depth Start (mKB) 1,607.00	Depth End (mKB) 1,664.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...) 279.0	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...) 279.0	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
KLA STOP		1.0
SODA ASH	29.57	1.0
ULTRA CAP	233.72	5.0
BARITE-HALLIBU...	0.00	35.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	LOCKOUT PROCEDURES
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/13/2010
 Report #: 47.0, DFS: 34.63
 Depth Progress: 25.00

Well Name: NALCOR ET.AL FINNEGAN #1

1,664.00mKB, 10/13/2010 16:00												
Type	Time	Depth (mKB)	Density (kg/m ³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)						
KLA SHIELD	16:00	1,664.00	1250.0	78	35.0	13.000						
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)						
5.500	8.500	8.0	1.0	9.1	0.3	9.5						
MBT (kg/m ³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)						
		2,050.000	120.000	1.600		10.000						
Whole Mud Added (m ³)	Mud Lost to Hole (m ³)	Mud Lost to Surface (m ³)	Reserve Mud Volume (m ³)	Active Mud Volume (m ³)								
		2.00	50.00	183.00								
BHA #14, Drilling Assembly												
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...							
13	311.0mm, GFI23B, PP3524		3-7-BC-2-E-1.00-FC-PR	579	2.0							
Nozzles (mm)		String Length (m)		OD (mm)								
11.1/14.3/14.3/14.3		1,755.39		311.2								
String Components												
SMITH GFI23B, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,664.00	1,665.00	1.00	0.75	1.3	2.500	25	80	0			0.0
Original Hole	1,665.00	1,689.00	25.00	11.00	2.3	2.500	30	65	17,700			0.0



Daily Drilling

Report for: 10/13/2010

Report #: 47.0, DFS: 34.63

Depth Progress: 25.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland			
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25			
Weather RAIN	Temperature (°C) 7	Road Condition FAIR	Hole Condition GOOD			
Operations at Report Time DRILLING 311 MM HOLE		Operations Next Report Period DRILLING AHEAD				
Operations Summary Tour Notes: NO ACCIDENTS OR INCIDENTS. RUN IN HOLE, HOLE CONDITIONS GOOD SLIP AND CUT 18M OF DRILL LINE HELD BOP DRILL DRILL 311mm HOLE FROM 1664m TO 1689m CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP MANIFOLD VALVE ALIGNMENT DEGASSER LINE J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE GREASED TRAVELING BLOCKS AND CROWN VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS CHECKED MECHANICAL CROWN SAVER DRILL PIPE COUNT @ 0700 HRS - 99 JOINTS IN HOLE , 157 JOINTS ON RACKS , 256 TOTAL JOINTS Day Tour Notes: CHECKED BRAKES AND LINKAGES FUNCTION TEST FLARE TANK IGNITER CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT CHECKED STABBING VALVE AND INSIDE B.O.P.						
Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:15	3.25	3.25	6	TRIPS	CONT TRIP OUT OF HOLE WITH FLOW CHECKS@708M-308M-0M CALCULATED=13.05m3 MEASURED=13.99m3 DIFFERENCE=+.94m3 FUNCTION BLIND RAMS O.O.H 4SEC CLOSE OPEN
03:15	03:30	0.25	3.50	21	SAFETY MEETING	SAFETY MEETING WITH BAKER HUGHES ONSITE SUPERVISOR PRIOR TO LAYING OUT DIRECTIONAL TOOLS
03:30	05:15	1.75	5.25	20	DIR. WORK	DIRECTIONAL WORK.BREAK BIT LAYDOWN VERTITRAK AND ROLLER REAMER,PICK UP NEW VERTITRAK MAKE UP BIT CHECK FILTER SUB AND FLOAT
05:15	06:45	1.50	6.75	6	TRIPS	TRIP IN HOLE WITH FLOW CHECKS@ 216M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	07:15	0.25	7.25	6	TRIPS	CONT TRIP IN HOLE WITH FLOW CHECKS@ 521M
07:15	08:45	1.50	8.75	9	CUT OFF DRILLING LINE	SLIP/CUT 18M DRILLING LINE/CHANGE HOISTING CLUTCH CONTROL /TEST VERTITRAK
08:45	11:00	2.25	11.00	6	TRIPS	CONTINUE TRIP IN HOLE FROM 521m TO 1646m WASHING LAST SINGLE TO BOTTOM WITH FLOW CHECK @ 1646m AND FILLING PIPE @ 1646M
11:00	11:15	0.25	11.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS/CHECK ALL OILS FUNCTION ANNULAR 33 SEC TO CLOSE
11:15	12:00	0.75	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1664m TO 1665m (PATTERN BIT)
12:00	18:00	6.00	18.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1665m - 1676m
18:00	18:15	0.25	18.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
18:15	18:30	0.25	18.50	21	SAFETY MEETING	DRILLS/BOP, ETC./WELL SECURE IN 56 SEC
18:30	18:45	0.25	18.75	21	SAFETY MEETING	CREW HAND OVER
18:45	23:00	4.25	23.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1676m - 1689m
23:00	00:00	1.00	24.00	25		ACCUMULATED CONNECTION TIME AND DOWN LINKING VERTITRAK TOOL

AFE Number	Total AFE Amount		
Daily Cost Total 86,570.26	Cum Cost To Date 3,522,309.90		
Daily Mud Cost 390.26	Mud Additive Cost To Date 98,439.92		
Depth Start (mKB) 1,664.00	Depth End (mKB) 1,689.00		
Target Formation Aguathuna	Target Depth (mKB) 3,250.00		
Last Casing String Surface, 570.00mKB			
Daily Contacts			
Job Contact	Mobile		
Well Site Office	709 636 4147		
Bill Williams	709 765 1074		
Randy Kavanagh	709 363 7261		
Ian O'leary	709 725 4365		
STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.	Rig Number 11		
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635		
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No	No		
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No	No		
Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
Defoam X	390.26	1.0	
Safety Checks			
Time	Type	Description	
12:00	Safety Meeting	RIG SERVICE	
00:00	Safety Meeting	B.O.P. DRILL	
Wellbores			
Wellbore Name	KO MD (mKB)		
Original Hole			



Daily Drilling

Report for: 10/14/2010
 Report #: 48.0, DFS: 35.63
 Depth Progress: 44.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #14, Drilling Assembly					
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
13	311.0mm, GFI23B, PP3524		3-7-BC-2-E-1.00-FC-PR	579	2.0
Nozzles (mm)		String Length (m)		OD (mm)	
11.1/14.3/14.3/14.3		1,755.39		311.2	
String Components					
SMITH GFI23B, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), X/O, HWDP(4.5 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	1,689.00	1,705.00	41.00	22.00	1.5	2.500	30	65	17,900			0.0
Original Hole	1,705.00	1,733.00	69.00	33.25	2.5	2.500	27	65	17,300			0.0

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Daily Drilling

Report for: 10/14/2010
 Report #: 48.0, DFS: 35.63
 Depth Progress: 44.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 4	Road Condition FAIR	Hole Condition GOOD

Operations at Report Time
DRILLING 311 MM HOLE

Operations Next Report Period
DRILLING AHEAD

Operations Summary
 Tour Notes:

NO ACCIDENTS OR INCIDENTS.
 DRILL 311mm HOLE FROM 1689m TO 1733m
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER
 DRILL PIPE COUNT @ 0500 HRS - 102 JOINTS IN HOLE , 154 JOINTS ON RACKS , 256 TOTAL JOINTS

Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

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	DRILLS/BOP, ETC. / B.O.P. DRILL WITH CREW , WELL SECURE IN 75 SECONDS , DISCUSSED CREW DUTIES AND WARNING SIGNS
00:15	00:30	0.25	0.50	7	RIG SERVICE	RIG SERVICE , GREASED ALL MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST ANNULAR < 33 SECONDS TO CLOSE >
00:30	06:45	6.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1689m - 1703m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	07:15	0.25	7.25	25		ACCUMULATED CONNECTIONS AND DOWN LINKING VERTITRAK
07:15	12:00	4.75	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1703m - 1712m
12:00	15:15	3.25	15.25	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1712m TO 1717m
15:15	15:30	0.25	15.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
15:30	15:45	0.25	15.75	25		ACCUMULATED CONNECTION AND DOWN LINKING VERTITRAK
15:45	18:45	3.00	18.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1717m TO 1724m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HAND OVER
19:00	00:00	5.00	24.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1724m TO 1733m

1,719.00mKB, 10/14/2010 16:15						
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	16:15	1,719.00	1250.0	75	32.0	12.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
5.000	7.000	8.0	1.0	9.0	0.3	9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	PF (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		2,100.000	100.000	1.400		10.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		7.00	34.00	193.00		

AFE Number	Total AFE Amount
Daily Cost Total 58,566.00	Cum Cost To Date 3,580,875.90
Daily Mud Cost 2,967.49	Mud Additive Cost To Date 101,407.41
Depth Start (mKB) 1,689.00	Depth End (mKB) 1,733.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian O'Leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
BARITE-HALLIBU...	0.00	42.0
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
BARITE-MI	22.70	42.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	CATWALK OPERATIONS

Wellbores	
Wellbore Name	KQ MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/15/2010
Report #: 49.0, DFS: 36.63
Depth Progress: 39.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #14, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
13	311.0mm, GF123B, PP3524		3-7-BC-2-E-1.00-FC-PR	579	2.0

Nozzles (mm)	String Length (m)	OD (mm)
11.1/14.3/14.3/14.3	1,755.39	311.2

String Components

SMITH GF123B, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,733.00	1,749.00	85.00	44.75	1.4	2.500	27	65	17,500			0.0
Original Hole	1,749.00	1,772.00	108.00	53.75	2.6	2.500	25	65	17,500			0.0



Daily Drilling

Report for: 10/15/2010
 Report #: 49.0, DFS: 36.63
 Depth Progress: 39.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 5	Road Condition POOR	Hole Condition GOOD

Operations at Report Time: **RUNNING IN HOLE WITH NEW BIT**
 Operations Next Report Period: **CONTINUE TO RUN IN HOLE AND DRILL 311 MM HOLE**

Operations Summary
 Tour Notes:
 NO ACCIDENTS OR INCIDENTS.
 DRILL 311mm HOLE FROM 1733m TO 1772m
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 PULL OUT OF HOLE AND CHANGE BIT
 HOLE CONDITIONS GOOD
 RUN IN HOLE WITH NEW BIT
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER
 Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

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 311mm HOLE FROM 1733m - 1744m
05:15	05:30	0.25	5.50	7	RIG SERVICE	RIG SERVICE GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION UPPER AND LOWER PIPE RAMS < 6 SECONDS TO CLOSE EACH >
05:30	06:45	1.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1744m - 1747m
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 FROM 1747m - 1749m
12:00	13:15	1.25	13.25	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1749m TO 1758m
13:15	13:30	0.25	13.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION ANNULAR 33 SEC TO CLOSE
13:30	18:45	5.25	18.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1758m - 1768m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	CREW HANDOVER MEETING
19:00	21:30	2.50	21.50	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1768m - 1772m
21:30	22:30	1.00	22.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTTOMS UP PRIOR TO TRIP
22:30	00:00	1.50	24.00	6	TRIPS	TRIP OUT OF HOLE WITH 10 MINUTE FLOW CHECKS @ 1755m & 1646m

1,764.00mKB, 10/15/2010 16:00

Type KLA SHIELD	Time 16:00	Depth (mKB) 1,764.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 78	PV Override (cp) 36.0	YP Override (Pa) 13.000
Gel 10 sec (Pa) 5.500	Gel 10 min (Pa) 9.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 120.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 11.000
Whole Mud Added (m³) 2.00	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 4.00	Reserve Mud Volume (m³) 48.00	Active Mud Volume (m³) 194.00		

AFE Number	Total AFE Amount
Daily Cost Total 67,885.00	Cum Cost To Date 3,648,760.90
Daily Mud Cost 1,978.69	Mud Additive Cost To Date 103,386.10
Depth Start (mKB) 1,733.00	Depth End (mKB) 1,772.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian O'leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
SODA ASH	29.57	1.0
ULTRA CAP	233.72	5.0
Defoam X	390.26	1.0
BARITE-HALLIBU...	0.00	42.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	TONG OPERATIONS
00:00	Safety Meeting	5 RIG TONG OPERATIONS

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	

Well Name: NALCOR ET.AL FINNEGAN #1

1,782.00mKB, 10/16/2010 15:45						
Type	Time	Depth (mKB)	Density (kg/m ³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	15:45	1,782.00	1250.0	79	32.0	13.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
5.000	7.000	8.0	1.0	9.1	0.5	9.5
MBT (kg/m ³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		2,000.000	100.000	1.400		9.000
Whole Mud Added (m ³)	Mud Lost to Hole (m ³)	Mud Lost to Surface (m ³)	Reserve Mud Volume (m ³)	Active Mud Volume (m ³)		
		1.00	48.00	195.00		
BHA #15, Drilling Assembly						
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...	
14	311.0mm, GFI30B, PP3318	0.34	1-1-WT-A-E-1.00-ER-PR	579	1.4	
Nozzles (mm)		String Length (m)		OD (mm)		
11.1/14.3/14.3/14.3		1,796.83		311.2		
String Components						
SMITH GFI30B, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tg
Original Hole	1,772.00	1,777.00	5.00	3.25	1.5	2,60...	25	65	17,500			0.0
Original Hole	1,777.00	1,793.00	21.00	14.50	1.4	2,60...	27	65	17,600			0.0



Daily Drilling

Report for: 10/16/2010
Report #: 50.0, DFS: 37.63
Depth Progress: 21.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 7	Road Condition POOR	Hole Condition GOOD
Operations at Report Time DRILLING 311MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
Tour Notes:

NO ACCIDENTS OR INCIDENTS.
 DRILL 311mm HOLE FROM 1772m TO 1793m
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 PULL OUT OF HOLE AND CHANGE BIT
 HOLE CONDITIONS GOOD
 RUN IN HOLE WITH NEW BIT
 RECIEVED MATERIAL FROM EAST CAN TRUCKING
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER

Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:15	2.25	2.25	6	TRIPS	CONTINUE TO TRIP OUT OF HOLE WITH FLOW CHECKS @ 876m , 352m & OUT OF HOLE , FUNCTION TEST BLIND RAMS OUT OF HOLE
02:15	02:30	0.25	2.50	21	SAFETY MEETING	SAFETY MEETING WITH BAKER HUGHES INTEQ
02:30	03:30	1.00	3.50	20	DIR. WORK	DIRECTIONAL WORK , BREAK BIT / GAGE REAMER / CHECK FLOAT & FILTER
03:30	06:30	3.00	6.50	6	TRIPS	TRIP IN HOLE WITH FLOW CHECKS @ 353m , 576m & 1128m , PULSE TEST VERTITRAK TOOL @ 356m , FILL PIPE @ 1122m AND CIRCULATE FOR 10 MINUTES
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	08:30	1.75	8.50	6	TRIPS	CONTINUE TO TRIP IN HOLE WASHING LAST 2 SINGLES TO BOTTOM AN CIRCULATE 1 FOOT OF BOTTOM FOR TEN MINUTES
08:30	08:45	0.25	8.75	25		ACCUMULATED CONNECTION AND DOWN LINK VERTITRAK
08:45	12:00	3.25	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1772m TO 1777m
12:00	18:30	6.50	18.50	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1777m TO 1785m
18:30	18:45	0.25	18.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION ANNULAR 33 SEC TO CLOSE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1785m - 1793m
23:45	00:00	0.25	24.00	25		ACCUMULATED CONNECTION TIME AND DOWNLINK VERTITRAK

AFE Number		Total AFE Amount	
Daily Cost Total	101,946.00	Cum Cost To Date	3,750,706.90
Daily Mud Cost	2,577.23	Mud Additive Cost To Date	105,963.33
Depth Start (mKB)	1,772.00	Depth End (mKB)	1,793.00
Target Formation	Aguathuna		
Last Casing String	Surface, 570.00mKB		
Target Depth (mKB)	3,250.00		

Daily Contacts

Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian O'leary	709 725 4365

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number	2	Pwr (kW)		Rod Dia (mm)	
Liner Size (mm)		Stroke (mm)	279.0	Vol/Stk OR (m³/...)	
Pres (kPa)		Slow Spd	No	Strokes (s...)	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
BARITE-MI	22.70	42.0
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	WINDY CONDITIONS
00:00	Safety Meeting	WORKING @ HEIGHTS ABOVE 6

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #15, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
14	311.0mm, GF30B, PP3318	0.34	1-1-WT-A-E-1.00-ER-PR	579	1.4

Nozzles (mm)	String Length (m)	OD (mm)
11.1/14.3/14.3/14.3	1,796.83	311.2

String Components

SMITH GF30B, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	1,793.00	1,802.00	30.00	26.00	0.8		27	65	17,300			0.0
Original Hole	1,802.00	1,817.00	45.00	31.75	2.6		30	65	17,200			0.0

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Daily Drilling

Report for: 10/17/2010
Report #: 51.0, DFS: 38.63
Depth Progress: 24.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather WIND AND RAIN	Temperature (°C) 9	Road Condition POOR	Hole Condition GOOD
Operations at Report Time DRILLING 311MM HOLE		Operations Next Report Period DRILLING AHEAD	

AFE Number	Total AFE Amount
Daily Cost Total 53,559.00	Cum Cost To Date 3,804,265.90
Daily Mud Cost 780.52	Mud Additive Cost To Date 106,743.85
Depth Start (mKB) 1,793.00	Depth End (mKB) 1,817.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Operations Summary
Tour Notes:

NO ACCIDENTS OR INCIDENTS.
DRILL 311mm HOLE FROM 1793m TO 1817m
HELD BOP DRILL
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT DEGASSER LINE
PULL OUT OF HOLE AND CHANGE BIT
HOLE CONDITIONS GOOD
J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
GREASED TRAVELING BLOCKS AND CROWN
VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
CHECKED MECHANICAL CROWN SAVER

Day Tour Notes:
CHECKED BRAKES AND LINKAGES
FUNCTION TEST FLARE TANK IGNITER
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
CHECKED STABBING VALVE AND INSIDE B.O.P.

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian O'leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	Vol/Stk OR (m³/...)
Liner Size (mm)	Stroke (mm) 279.0		
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	Vol/Stk OR (m³/...)
Liner Size (mm)	Stroke (mm) 279.0		
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

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 311mm HOLE FROM 1793m - 1799m
05:45	06:00	0.25	6.00	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST UPPER AND LOWER PIPE RAMS < 5 SECONDS TO CLOSE EACH >
06:00	06:45	0.75	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1799m - 1800m
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 FROM 1800m - 1809m
12:00	15:00	3.00	15.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1809m TO 1813m
15:00	15:15	0.25	15.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION HCR VALVE 4 SEC TO OPEN
15:15	18:00	2.75	18.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1813m TO 1817m
18:00	18:45	0.75	18.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	22:45	3.75	22.75	6	TRIPS	TRIP OUT OF HOLE WITH 10 MINUTE FLOW CHECKS @ 1810m , 1701m , 904m , 353m & OUT OF HOLE
22:45	23:00	0.25	23.00	21	SAFETY MEETING	SAFETY MEETING WITH BAKER HUGHES INTEQ
23:00	00:00	1.00	24.00	20	DIR. WORK	DIRECTIONAL WORK , GAGE REAMER , BREAK BIT AND MAKE UP NEW BIT , CHECK FILTER AND FLOAT

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
BARITE-HALLIBU...	0.00	42.0
Defoam X	390.26	1.0
BARITE-HALLIBU...	0.00	84.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	MIXING CHEMICALS
00:00	Safety Meeting	TRIPPING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	

1,816.00mKB, 10/17/2010 16:30						
Type KLA SHIELD	Time 16:30	Depth (mKB) 1,816.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 77	PV Override (cp) 34.0	YP Override (Pa) 13.000
Gel 10 sec (Pa) 5.500	Gel 10 min (Pa) 9.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.5	Solids (%) 9.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,950.000	Calcium (mg/L) 100.000	Pf (mL/mL) 1.500	Pm (mL/mL)	Gel 30 min (Pa) 11.000
Whole Mud Added (m³) 6.00	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 5.00	Reserve Mud Volume (m³) 41.00	Active Mud Volume (m³) 197.00		



Daily Drilling

Report for: 10/18/2010
 Report #: 52.0, DFS: 39.63
 Depth Progress: 36.00

Well Name: NALCOR ET.AL FINNEGAN #1

Time Log												
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment						
23:45	00:00	0.25	24.00	25		ACCUMULATED CONNECTION TIME AND DOWNLINK VERTITRAK						
1,842.00mKB, 10/18/2010 16:00												
Type	Time	Depth (mKB)	Density (kg/m ³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)						
KLA SHIELD	16:00	1,842.00	1245.0	80	30.0	13.000						
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)						
5.000	9.000	8.0	1.0	9.0	0.5	9.0						
MBT (kg/m ³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)						
		1,950.000	100.000	1.500		11.000						
Whole Mud Added (m ³)	Mud Lost to Hole (m ³)	Mud Lost to Surface (m ³)	Reserve Mud Volume (m ³)	Active Mud Volume (m ³)								
		2.00	41.50	200.00								
BHA #16, Drilling Assembly												
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...							
15	311.0mm, GF23B, PP7440	0.34	2-2-WT-H-E-0.00-BT-HR	515	2.1							
Nozzles (mm)	String Length (m)	OD (mm)										
14.3/14.3/11.1/11.1	1,934.15	311.2										
String Components												
SMITH GF23B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles												
Comment												
2 X 11.1 , 2 X 14.3												
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	1,817.00	1,833.00	16.00	7.25	2.2	2.900	22	75	22,800			0.0
Original Hole	1,833.00	1,853.00	36.00	16.25	2.2	2.900	21	73	21,400			0.0



Daily Drilling

Report for: 10/18/2010

Report #: 52.0, DFS: 39.63

Depth Progress: 36.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather WIND AND RAIN	Temperature (°C) 9	Road Condition POOR	Hole Condition GOOD

Operations at Report Time DRILLING 311MM HOLE	Operations Next Report Period DRILLING AHEAD
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Operations Summary
Tour Notes:

NO ACCIDENTS OR INCIDENTS.
DRILL 311mm HOLE FROM 1817m TO 1853m
REPAIR HEADS AND REPALCE LINER ON #1 MUD PUMP
HELD BOP DRILL
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT DEGASSER LINE
RUN IN HOLE WITH NEW BIT
HOLE CONDITIONS GOOD
J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
GREASED TRAVELING BLOCKS AND CROWN
VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
CHECKED MECHANICAL CROWN SAVER
Day Tour Notes:
CHECKED BRAKES AND LINKAGES
FUNCTION TEST FLARE TANK IGNITER
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
CHECKED STABBING VALVE AND INSIDE B.O.P.

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	CONTINUE DIRECTIONAL WORK
00:15	03:45	3.50	3.75	6	TRIPS	TRIP IN HOLE WITH FLOW CHECKS @ 344m , 570m , 1163m & 1800m , PULSE TEST VERTITRAK @ 344m , FILL PIPE @ 344m & 1163m
03:45	06:45	3.00	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1817m - 1823m < PATTERN BIT >
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 311mm HOLE FROM 1823m - 1826m
08:45	09:15	0.50	9.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION UPP AND LOWER PIPE RAMS/GREASED CROWN AND CHANGE OUT SHAKER SCREENS
09:15	09:30	0.25	9.50	25		CONNECTION AND DOWN LINKING VERTITRAK
09:30	12:00	2.50	12.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1826m TO 1833m
12:00	14:15	2.25	14.25	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FR 1833m TO 1837m
14:15	15:00	0.75	15.00	25		CHANGE OUT HEAD ON MUD PUMP AND DOWN LINKING VERTITRAK
15:00	17:45	2.75	17.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1837m TO 1843m
17:45	18:15	0.50	18.25	25		CHANGE HEAD ON MUD PUMP AND DOWN LINK VERTITRAK
18:15	18:45	0.50	18.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1843m TO 1844m
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	CONTINUE TO DRILL FROM 1844m TO 1845m
19:15	20:15	1.00	20.25	25		CHANGE LINER IN MUD PUMP # 1 < FLYWHEEL SIDE >
20:15	23:30	3.25	23.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1845m - 1853m
23:30	23:45	0.25	23.75	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST ANNULAR < 34 SECONDS TO CLOSE >

AFE Number	Total AFE Amount
Daily Cost Total 83,358.00	Cum Cost To Date 3,887,623.90
Daily Mud Cost 1,623.83	Mud Additive Cost To Date 108,367.68
Depth Start (mKB) 1,817.00	Depth End (mKB) 1,853.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian O'Leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
BARITE-HALLIBU...	0.00	42.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	LOADER OPERATIONS
00:00	Safety Meeting	EMERGENCY RESPONSE PROCEDURES

Wellbores	
Wellbore Name	KO.MD (mKB)
Original Hole	

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #16, Drilling Assembly												
Bit Run	Drill Bit		Length (m)	IADC Bit Dull			TFA (incl Noz) (mm²)	BHA ROP...				
15	311.0mm, GF23B, PP7440		0.34	2-2-WT-H-E-0.00-BT-HR			515	2.1				
Nozzles (mm)			String Length (m)			OD (mm)						
14.3/14.3/11.1/11.1			1,934.15			311.2						
String Components												
SMITH GF23B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles												
Comment												
2 X 11.1 , 2 X 14.3												
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	1,853.00	1,879.00	62.00	27.25	2.4	2.900	25	73	21,300			0.0
Original Hole	1,879.00	1,899.00	82.00	38.25	1.8	2.900	22	72	21,000			0.0



Daily Drilling

Report for: 10/19/2010
 Report #: 53.0, DFS: 40.63
 Depth Progress: 46.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 7	Road Condition POOR	Hole Condition GOOD
Operations at Report Time DRILLING 311MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 Tour Notes:
 NO ACCIDENTS OR INCIDENTS.
 DRILL 311mm HOLE FROM 1853m TO 1899m
 REPALCE 2 HEADS AND 1 LINER ON #1 MUD PUMP
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER
 Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

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 FROM 1853m - 1854m
00:45	01:00	0.25	1.00	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST UPPER AND LOWER PIPE RAMS < 5 SECONDS TO CLOSE >
01:00	06:30	5.50	6.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1854m - 1867m
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	07:30	0.75	7.50	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1867m - 1868m
07:30	08:00	0.50	8.00	25		ACCUMULATED CONNECTION AND DOWN LINKING VERTITRAK/WORKING KELLY TO DRY OF BRAKES DUE TO HARD RAINY CONDITIONS
08:00	12:00	4.00	12.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1868m TO 1879m
12:00	14:15	2.25	14.25	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1879m TO 1881m
14:15	14:30	0.25	14.50	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION ANNULAR 33 SEC TO CLOSE
14:30	18:45	4.25	18.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1881m TO 1890m
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	DRILL 311mm HOLE FROM 1890m - 1899m
23:30	00:00	0.50	24.00	25		ACCUMULATED CONNECTION TIME AND DOWNLINKING VERTITRAK

1,886.00mKB, 10/19/2010 16:15						
Type KLA SHIELD	Time 16:15	Depth (mKB) 1,886.00	Density (kg/m³) 1245.0	Funnel Viscosity (s/L) 71	PV Override (cp) 30.0	YP Override (Pa) 10,000
Gel 10 sec (Pa) 5,000	Gel 10 min (Pa) 7,000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.5	Solids (%) 9.3
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,950.000	Calcium (mg/L) 100.000	Pf (mL/mL) 1.500	Pm (mL/mL)	Gel 30 min (Pa) 10,000
Whole Mud Added (m³) 8.50	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 7.00	Reserve Mud Volume (m³) 45.70	Active Mud Volume (m³) 203.00		

AFE Number	Total AFE Amount
Daily Cost Total 87,081.00	Cum Cost To Date 3,974,704.90
Daily Mud Cost 1,687.52	Mud Additive Cost To Date 110,055.20
Depth Start (mKB) 1,853.00	Depth End (mKB) 1,899.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian O'Leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
SODA ASH	29.57	1.0
ULTRA CAP	233.72	5.0
Defoam X	390.26	1.0
DUO VIS	99.09	1.0
BARITE-HALLIBU...	0.00	170.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	PPE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/20/2010
 Report #: 54.0, DFS: 41.63
 Depth Progress: 40.00

Well Name: NALCOR ET.AL FINNEGAN #1

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 #16, Drilling Assembly												
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...							
15	311.0mm, GF23B, PP7440	0.34	2-2-WT-H-E-0.00-BT-HR	515	2.1							
Nozzles (mm)		String Length (m)		OD (mm)								
14.3/14.3/11.1/11.1		1,934.15		311.2								
String Components												
SMITH GF23B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles												
Comment												
2 X 11.1 , 2 X 14.3												
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 Tg
Original Hole	1,899.00	1,921.00	104.00	49.00	2.0		25	75	21,400			0.0
Original Hole	1,921.00	1,939.00	122.00	59.00	1.8		25	75	21,500			0.0



Daily Drilling

Report for: 10/20/2010

Report #: 54.0, DFS: 41.63

Depth Progress: 40.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 5	Road Condition POOR,ROUGH	Hole Condition GOOD

Operations at Report Time: **LAYING DOWN DIRECTIONAL TOOLS**
 Operations Next Report Period: **PRESSERE TEST BOP'S**

Operations Summary
 Tour Notes:

NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 DRILL 311mm HOLE FROM 1899m TO 1939m
 CIRCULATE BOTTOMS UP
 CHANGE LOWER KELLY COCK
 FLOW CHECK. WELL STATIC.
 PULL OUT OF HOLE TO CHANGE BIT AND PRESSURE TEST BOP'S, SURFACE EQUIPMENT AND LINES.
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER
 Day Tour Notes:
 CHECKED BRAKES AND LINKAGES
 FUNCTION TEST FLARE TANK IGNITER
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 CHECKED STABBING VALVE AND INSIDE B.O.P.

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 FROM 1899m - 1909m
05:00	05:15	0.25	5.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST UPPER AND LOWER PIPE RAMS < 5 SECONDS TO CLOSE EACH >
05:15	05:45	0.50	5.75	25		CHANGE TWO HEADS < CENTER AND SUMP SIDE >AND A LINER < SUMP SIDE > IN MUD PUMP # 1
05:45	06:30	0.75	6.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1909m - 1910m
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	10:15	3.50	10.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1910m - 1919M
10:15	10:30	0.25	10.50	25		REPLACE CAP GASKET PUMP#2
10:30	12:00	1.50	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1919m TO 1921m
12:00	13:30	1.50	13.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1921m TO 1923m
13:30	13:45	0.25	13.75	7	RIG SERVICE	RIG SERVICE GREASED WASHPIPE,DRAWWORKS,CHECKED ALL OILS
13:45	14:00	0.25	14.00	25		REPLACE MIDDLE HEAD PUMP#2
14:00	18:45	4.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1923m TO 1933m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	22:45	3.75	22.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1933m TO 1939m
22:45	23:30	0.75	23.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE HOLE CLEAN TO TRIP
23:30	00:00	0.50	24.00	6	TRIPS	TRIP OUT OF HOLE

AFE Number	Total AFE Amount
Daily Cost Total 54,635.00	Cum Cost To Date 4,029,339.90
Daily Mud Cost 2,212.27	Mud Additive Cost To Date 112,267.47
Depth Start (mKB) 1,899.00	Depth End (mKB) 1,939.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian O'leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No	No		

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
DUO VIS	99.09	1.0
KLA STOP	1,233.57	1.0
DUO VIS	99.09	1.0
DEFOAM X	390.26	2.0
BARITE-HALLIBU...	0.00	84.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	DRILLING
00:00	Safety Meeting	TRIPPING OUT

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	

Well Name: NALCOR ET.AL FINNEGAN #1

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
19:15	20:15	1.00	20.25	9	CUT OFF DRILLING LINE	SLIP/CUT 18M OF DRILLING LINE
20:15	23:15	3.00	23.25	6	TRIPS	CONTINUE TO TRIP IN HOLE FROM 361m TO 1153M FLOW CHECK AND FILL PIPE/TEST VERTITRAK/CONT IN HOLE TO 1939M WASING LAST SINGLE TO BOTTOM
23:15	00:00	0.75	24.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1939m TO 1942m {pattern bit}

1,939.00mKB, 10/21/2010 08:00						
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	08:00	1,939.00	1255.0	120	34.0	13.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
5.000	8.000	8.0	1.0	9.0	0.3	9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		1,900.000	100.000	1.600		10.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
5.10		4.00	32.90	205.00		

BHA #17, Drilling Assembly					
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
16	311.0mm, MI716, JD1237	0.37	8-8-WT-A-X-0.00-BT-PR		1.5
Nozzles (mm)		String Length (m)		OD (mm)	
		1,948.10		311.2	
String Components					
SMITH MI716, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,939.00	1,942.00	3.00	0.75	4.0		12	120	27,200			0.0



Daily Drilling

Report for: 10/21/2010

Report #: 55.0, DFS: 42.63

Depth Progress: 3.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather HIGH WINDS	Temperature (°C) 5	Road Condition POOR,ROUGH	Hole Condition GOOD
Operations at Report Time DRILLING 311MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 CONTINUE TO PULL OUT OF HOLE, LAY DOWN DIRECTIONAL TOOLS

RIG UP AND PRESSURE TEST BOP:s ALL TEST 1500 kpa LOW, 21000 kpa HIGH.
 PRESS TEST PIPE RAMS UPPER/LOWER, BLIND RAMS,ANNULAR PREVENTOR, HCR VALVES
 INSIDE/OUTSIDE,KILL LINE VALVES AND CHECK VALVE, STANDPIPE, UPPER/LOWER KELLY COCKS AND CHOKE
 LINE AND ALL MANIFOLD VALVES.

PICK UP DIRECTIONAL TOOLS AND BIT
 RUN IN HOLE WITH NEW BHA
 SLIP AND CUT 18 M OF DRILL LINE
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	04:00	4.00	4.00	6	TRIPS	CONTINUE TO TRIP OUT OF HOLE WITH F/C @ 1801M/976M/341M/OOH/MEAS 15.49M3/CALC 13.84ME/DIFF 1.65M3 FUNCTION BLIND RAMS OOH 6 SEC TO CLOSE
04:00	04:15	0.25	4.25	21	SAFETY MEETING	SAFETY MEETINGWITH DIRECTIONAL HANDS
04:15	05:45	1.50	5.75	20	DIR. WORK	DIRECTIONAL WORK/LAYOUT DIRECTIONAL TOOLS
05:45	06:45	1.00	6.75	15	TEST B.O.P.	PULL WEAR BUSHING SET TEST PLUG PREPARE TO PRESSURE TEST BOPS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	08:00	1.00	8.00	15	TEST B.O.P.	PRESSURE TEST#1 UPPER PIPE RAMS,INSIDE KILL VALVE,HCR VALVE,1500kpa LOW 21000kpa HIGH, TEST#2 ANNULAR,OUTSIDE KILL VALVE,MANUEL HCR VALVE,1500kpa LOW 21000kpa HIGH
08:00	10:30	2.50	10.50	15	TEST B.O.P.	PRESSURE TEST#3 LOWER PIPE RAMS 1500kpa LOW 21000kpa HIGH PRESSURE TEST#4 BLIND RAMS,KILL LINE CHECK VALVE 1500kpa LOW 21000kpa HIGH TEST#5 INSIDE BOP 1500kpa LOW 21000kpa HIGH
10:30	12:00	1.50	12.00	15	TEST B.O.P.	PRESSURE TEST#6, STABBING VALVE 1500kpa LOW 21000kpa HIGH, PRESSURE TEST#7 LOWER KELLY COCK 1500kpa LOW 21000kpa HIGH
12:00	12:45	0.75	12.75	15	TEST B.O.P.	CONTINUE PRESSURE TEST AGAINST UPPER KELLY TEST#8 1500 LOW 21000 HIGH TEST#9 PRESSURE TEST BACK TO 4in. ON MUD PUMPS 1500 LOW 21000 HIGH
12:45	13:15	0.50	13.25	15	TEST B.O.P.	RIG OUT PRESSURE TESTER OFF FLOOR RIG UP TO TEST MANIFOLD SHACK
13:15	13:45	0.50	13.75	25		SET WEAR BUSHING,PRESSURE TEST MANIFOLD
13:45	14:45	1.00	14.75	20	DIR. WORK	DIRECTIONAL WORK,PICK UP MUD MOTOR ,FILTER SUB,ROLLER REAMER,MAKE UP BIT,DOG SUB
14:45	17:30	2.75	17.50	6	TRIPS	TRIP IN HOLE FROM 15M TO 361M
17:30	18:45	1.25	18.75	20	DIR. WORK	PICK UP KELLY, SHALLOW TEST VERTATRAK
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	19:15	0.25	19.25	20	DIR. WORK	CONTINUE TO TRY AND GET VERTITRAK TO PULSE

AFE Number	Total AFE Amount
Daily Cost Total 74,957.00	Cum Cost To Date 4,104,296.90
Daily Mud Cost 934.88	Mud Additive Cost To Date 113,202.35
Depth Start (mKB) 1,939.00	Depth End (mKB) 1,942.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian O'leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No	No		

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
279.0			
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ULTRA CAP	233.72	4.0
BARITE-HALLIBU...	0.00	42.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	PRESSURE TESTING
00:00	Safety Meeting	SLIP AND CUT

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/22/2010
Report #: 56.0, DFS: 43.63
Depth Progress: 19.00

Well Name: NALCOR ET.AL FINNEGAN #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	1,942.00	1,954.00	15.00	9.25	1.4		25	128	25,000			0.0
Original Hole	1,954.00	1,961.00	22.00	15.00	1.2		20	105	21,000			0.0

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Daily Drilling

Report for: 10/22/2010

Report #: 56.0, DFS: 43.63

Depth Progress: 19.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather WIND AND RAIN	Temperature (°C) 9	Road Condition FAIR	Hole Condition
Operations at Report Time DRILLING 311MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary

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	CONTINUE TO DRILL 311mm HOLE FROM 1942m TO 1943m
01:00	01:15	0.25	1.25	25		CHANGE OUT CAP GASKET AND DOWN LINK VERTITRAK
01:15	06:45	5.50	6.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1943m TO 1949m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	07:30	0.50	7.50	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1949m TO 1951
07:30	07:45	0.25	7.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
07:45	09:30	1.75	9.50	25		TROUBLESHOOT PUMP THROTTLE
09:30	11:45	2.25	11.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1950m TO 1954m
11:45	12:00	0.25	12.00	25		CYCLE PUMPS FOR VERTATRAC
12:00	17:30	5.50	17.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1954M TO 1960M
17:30	18:00	0.50	18.00	25		PICK UP OFF BOTTOM WAIT FOR 1960M SAMPLE
18:00	18:15	0.25	18.25	2	DRILL ACTUAL	DRILLDRILL 311mm HOLE FROM 1960M TO 1961M
18:15	18:30	0.25	18.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
18:30	19:15	0.75	19.25	5	COND MUD & CIRC	CONDITION MUD AND CIRCULATE
19:15	19:30	0.25	19.50	21	SAFETY MEETING	SAFETY MEETING WITH CREW ON TRIPPING OUT
19:30	23:45	4.25	23.75	6	TRIPS	TRIP OUT OF HOLE WITH F/C @ 1947M/1811M/985M/350M/OOH MEAS 15.67M3/CALC 13.9M3/DIFF 1.77M3/FUNCTION BLIND RAMS OOH 6 SEC TO CLOSE
23:45	00:00	0.25	24.00	21	SAFETY MEETING	SAFETY MEETING WITH DIRECTIONAL

1,958.00mKB, 10/22/2010 16:00

Type KLA SHIELD	Time 16:00	Depth (mKB) 1,958.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 78	PV Override (cp) 34.0	YP Override (Pa) 14,000
Gel 10 sec (Pa) 5,000	Gel 10 min (Pa) 9,000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 9.8
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,900.000	Calcium (mg/L) 100.000	PF (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 12,000
Whole Mud Added (m³) 5.00	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 8.00	Reserve Mud Volume (m³) 27.90	Active Mud Volume (m³) 210.00		

BHA #17, Drilling Assembly

Bit Run 16	Drill Bit 311.0mm, MI716, JD1237	Length (m) 0.37	IADC Bit Dull 8-8-WT-A-X-0.00-BT-PR	TFA (incl Noz) (mm²) 1.5	BHA ROP... 1.5	
Nozzles (mm)	String Length (m) 1,948.10	OD (mm) 311.2				

String Components

SMITH MI716, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
Daily Cost Total 64,955.00	Cum Cost To Date 4,169,251.90
Daily Mud Cost 1,170.78	Mud Additive Cost To Date 114,373.13
Depth Start (mKB) 1,942.00	Depth End (mKB) 1,961.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts

Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
Defoam X	390.26	2.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CLEANING PLUGGED VACUUM HOSES
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores

Wellbore Name	KQ.MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/23/2010
 Report #: 57.0, DFS: 44.63
 Depth Progress: 27.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #18, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
17	311.0mm, GFI23B, PP3525	0.33	2-2-WT-A-E-0.00-NO-HR	515	1.8

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/14.3/14.3	2,071.43	311.2

String Components
 SMITH GFI23B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), X/O, HWDP(4.5 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	1,961.00	1,968.00	7.00	5.25	1.3		10	70	22,000			0.0
Original Hole	1,968.00	1,988.00	27.00	16.50	1.8		26	70	20,500			0.0



Daily Drilling

Report for: 10/23/2010
 Report #: 57.0, DFS: 44.63
 Depth Progress: 27.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather WIND AND RAIN	Temperature (°C) 8	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 LAY DOWN DIRECTIONAL TOOLS AND BIT

PICK UP DIRECTIONAL TOOLS AND BIT
 RUN IN HOLE WITH NEW BHA
 DRILL 311MM HOLE FROM 1961M TO 1988M.
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 J.T.A REVIEW 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS 6-H PIPE SPINNER USE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:45	1.75	1.75	20	DIR. WORK	DIRECTIONAL WORK LAYOUT VERTITRAK/PICK UP NEW VERTITRAK/CHECK FILTER ON FILTER SUB
01:45	06:15	4.50	6.25	6	TRIPS	TRIP IN HOLE TO 412M F/C AND FILL PIPE TEST VERTITRAK CONT IN HOLE TO 1290M F/C AND FILL PIPE CONT IN HOLE FR 1290 TO 1960 WASHING TO BOTTOM AND CIRCULATING 6 INCHES OF BOTTOM TO WASH AWAY ANY BROKEN CUTTERS FROM OLD BIT
06:15	06:45	0.50	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1961M TO 1962M<PATTERN BIT>
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	09:45	2.75	9.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1962M TO 1964M
09:45	10:00	0.25	10.00	7	RIG SERVICE	RIG SERVICE, GREASED WASHPIPE,DRAWWORKS,CHECKED ALL OILS
10:00	12:00	2.00	12.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1964M TO 1968M
12:00	18:45	6.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 1968M TO 1978M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	22:45	3.75	22.75	2	DRILL ACTUAL	DRILL 311 mm HOLE FROM 1978M TO 1986m
22:45	23:00	0.25	23.00	25		CHANGE CAP GASKET ON MUD PUMP AND DOWN LINK VERTITRAK
23:00	23:15	0.25	23.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/ FUNCTION ANNULAR 33 SEC TO CLOSE
23:15	00:00	0.75	24.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1986m TO 1988m

1,975.00mKB, 10/23/2010 16:00						
Type KLA SHIELD	Time 16:00	Depth (mKB) 1,975.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 74	PV Override (cp) 30.0	YP Override (Pa) 13,000
Gel 10 sec (Pa) 5,000	Gel 10 min (Pa) 9,000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 9.8
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 1,900.000	Calcium (mg/L) 100.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 12,000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 3.00	Reserve Mud Volume (m³) 27.90	Active Mud Volume (m³) 208.00		

AFE Number	Total AFE Amount
Daily Cost Total 53,863.00	Cum Cost To Date 4,223,114.90
Daily Mud Cost 2,014.09	Mud Additive Cost To Date 116,387.22
Depth Start (mKB) 1,961.00	Depth End (mKB) 1,988.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
BARITE-HALLIBU...	0.00	42.0
KLA STOP	1,233.57	1.0
Defoam X	390.26	2.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	DRILLING
00:00	Safety Meeting	CATWALK OPERATIONS

Wellbores	
Wellbore Name	KO.MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/24/2010

Report #: 58.0, DFS: 45.63

Depth Progress: 43.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 5	Road Condition FAIR	Hole Condition GOOD

Operations at Report Time
DRILLING 311MM HOLE

Operations Next Report Period
DRILLING AHEAD

Operations Summary
NO ACCIDENTS OR INCIDENTS.
NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
DRILL 311MM HOLE FROM 1988M TO 2031M.
HELD BOP DRILL
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT DEGASSER LINE
GREASED TRAVELING BLOCKS AND CROWN
VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
CHECKED MECHANICAL CROWN SAVER

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	CONTINUE TO DRILL 311mm HOLE FROM 1988m TO 1991m
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
02:45	06:45	4.00	6.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 1991m TO 2000m
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	CONTINUE TO DRILL 311mm HOLE FROM 2000m TO 2009m
12:00	17:15	5.25	17.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2009M TO 2019M
17:15	17:30	0.25	17.50	7	RIG SERVICE	RIG SERVICE GREASE WASHPIPE, DRAWWORKS, CHECK OILS, FUNCTIONED ANNULAR 32secs TO CLOSE
17:30	18:45	1.25	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2019M TO 2022M
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	DRILL 311mm HOLE FROM 2022M TO 2031M

2,016.00mKB, 10/24/2010 16:00

Type KLA SHIELD	Time 16:00	Depth (mKB) 2,016.00	Density (kg/m³) 1245.0	Funnel Viscosity (s/L) 80	PV Override (cp) 32.0	YP Override (Pa) 14.000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 11.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 14.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 5.00	Reserve Mud Volume (m³) 36.90	Active Mud Volume (m³) 213.00		

BHA #18, Drilling Assembly

Bit Run 17	Drill Bit 311.0mm, GF123B, PP3525	Length (m) 0.33	IADC Bit Dull 2-2-WT-A-E-0.00-NO-HR	TFA (incl Noz) (mm²) 515	BHA ROP... 1.8
Nozzles (mm) 11.1/11.1/14.3/14.3	String Length (m) 2,071.43	OD (mm) 311.2			
String Components SMITH GF123B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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	1,988.00	2,009.00	48.00	28.00	1.8		28	70	20,500			0.0
Original Hole	2,009.00	2,031.00	70.00	39.50	1.9		28	70	21,500			0.0

AFE Number	Total AFE Amount
Daily Cost Total 54,487.00	Cum Cost To Date 4,277,601.90
Daily Mud Cost 1,880.54	Mud Additive Cost To Date 118,267.76
Depth Start (mKB) 1,988.00	Depth End (mKB) 2,031.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts

Job Contact	Mobile
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Ian Oleary	709 725 4365
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
POLYPLUS RD	156.11	1.0
SODA ASH	29.57	1.0
LIGNITE	34.00	4.0
ULTRA CAP	233.72	5.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DRILLING
00:00	Safety Meeting	RIG SERVICE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/25/2010
 Report #: 59.0, DFS: 46.63
 Depth Progress: 38.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 4	Road Condition FAIR/ ROUGH	Hole Condition GOOD

Operations at Report Time
DRILLING 311MM HOLE

Operations Next Report Period
DRILLING AHEAD

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 DRILL 311MM HOLE FROM 2031M TO 2069M.
 CHANGED OUT HEAD ON #2 MUD PUMP AND CAP GASKET
 COMPLETED DRIFTING ON 244.5MM CASING
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER

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	CONTINUE TO DRILL 311mm HOLE FROM 2031m TO 2032m
00:30	00:45	0.25	0.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
00:45	06:45	6.00	6.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 2032m TO 2044m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	11:45	4.75	11.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 2044m TO 2053m
11:45	12:00	0.25	12.00	25		CYCLE PUMPS FOR VERTATRAC
12:00	16:30	4.50	16.50	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2053M TO 2060M
16:30	16:45	0.25	16.75	7	RIG SERVICE	RIG SERVICE,GREASE CROWN,GREASE WASHPIPE,CHECK ALL OILS,FUNCTION ANNULAR(32secs TO CLOSE)
16:45	17:00	0.25	17.00	25		ACCUMULATED CONNECTION AND DOWN LINKING VERTITRAC
17:00	18:45	1.75	18.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2060M TO 2063m
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	DRILL 311mm HOLE FROM 2063m TO 2069m

2,060.00mKB, 10/25/2010 16:00							
Type KLA SHIELD	Time 16:00	Depth (mKB) 2,060.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 78	PV Override (cp) 34.0	YP Override (Pa) 14,000	
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 11.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 9.8	
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 14,000	
Whole Mud Added (m³) 9.00	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 5.00	Reserve Mud Volume (m³) 27.90	Active Mud Volume (m³) 219.00			

BHA #18, Drilling Assembly						
Bit Run 17	Drill Bit 311.0mm, GF123B, PP3525	Length (m) 0.33	IADC Bit Dull 2-2-WT-A-E-0.00-NO-HR	TFA (incl Noz) (mm²) 515	BHA ROP... 1.8	
Nozzles (mm) 11.1/11.1/14.3/14.3		String Length (m) 2,071.43		OD (mm) 311.2		
String Components SMITH GF123B, DOG SUB, VERTITRAC, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles						
Comment						

AFE Number	Total AFE Amount
Daily Cost Total 65,968.85	Cum Cost To Date 4,343,570.75
Daily Mud Cost 1,369.57	Mud Additive Cost To Date 119,637.33
Depth Start (mKB) 2,031.00	Depth End (mKB) 2,069.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
KLA STOP	1,233.57	1.0
LIGNITE	34.00	4.0
BARITE-HALLIBU...	0.00	126.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	RIG SREVICE
00:00	Safety Meeting	MOVING DRILLPIPE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/25/2010
Report #: 59.0, DFS: 46.63
Depth Progress: 38.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,031.00	2,053.00	92.00	50.75	2.0		28	72	21,700			0.0
Original Hole	2,053.00	2,069.00	108.00	62.00	1.4		25	73	21,800			0.0



Daily Drilling

Report for: 10/26/2010
 Report #: 60.0, DFS: 47.63
 Depth Progress: 17.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) -2	Road Condition FAIR/ ROUGH	Hole Condition GOOD
Operations at Report Time DRILLING 311MM HOLE		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 DRILL 311MM HOLE FROM 2069M TO 2086M.
 PULL OUT OF HOLE TO CHANGE BIT AND VERTITRAK.
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 GREASED TRAVELING BLOCKS AND CROWN
 VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
 CHECKED MECHANICAL CROWN SAVER

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	CONTINUE TO DRILL 311mm HOLE FROM 2069m TO 2074m
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
02:45	04:00	1.25	4.00	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 2074m TO 2077m
04:00	05:15	1.25	5.25	25		CHANGE HEAD ON MUD PUMP
05:15	06:45	1.50	6.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 2077m TO 2080m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	10:15	3.25	10.25	2	DRILL ACTUAL	CONTINUE TO DRILL FROM 2080m TO 2086M
10:15	11:00	0.75	11.00	25		CIRCULATE BOTTOMS UP
11:00	11:15	0.25	11.25	25		INSTALL ELEVATORS,PUMPINSTALL ELEVATORS
11:15	12:00	0.75	12.00	6	TRIPS	TRIP OUT OF HOLE WITH FLOW CHECKS@2086M,1920M
12:00	17:15	5.25	17.25	6	TRIPS	TRIP OUT OF HOLE FROM 1920M WITH FLOW CHECKS@ 1037M,346M,OUTOFF HOLE TRIP SHEET CALCULATED 14.4m3 MEASURED 16,11m3 DIFFERENCE 1.71m3
17:15	17:45	0.50	17.75	25		PICK UP 5FT. TONGS CHANGE JAWS FUNCTION BLIND RAMS OUT OFF HOLE
17:45	18:45	1.00	18.75	6	TRIPS	LAY OUT REAMER,BREAK OFF BIT,
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	20:15	1.25	20.25	20	DIR. WORK	DIRECTIONAL WORK LAYOUT VERTITRAK AND PICK UP NEW VERTITRAK/CHECK FILTER SUB
20:15	21:30	1.25	21.50	6	TRIPS	TRIP IN HOLE TO 355M <FLOW CHECK>
21:30	23:00	1.50	23.00	9	CUT OFF DRILLING LINE	SLIP/CUT 16.5M OF DRILLING LINE/PULSE TEST VERTITRAK/CHANGE OIL ON FLOOR MOTOR
23:00	00:00	1.00	24.00	6	TRIPS	CONTINUE TRIP IN HOLE FROM 355m TO 1398 F/C AND FILL PIPE

2,080.00mKB, 10/26/2010 16:00						
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	16:00	2,080.00	1250.0	74	30.0	13.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
6.000	11.000	8.0	1.0	9.0	0.3	10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		2,100.000	80.000	1.400		14.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		4.00	27.90	215.00		

AFE Number	Total AFE Amount
Daily Cost Total 118,671.20	Cum Cost To Date 4,462,241.95
Daily Mud Cost	Mud Additive Cost To Date 119,637.33
Depth Start (mKB) 2,069.00	Depth End (mKB) 2,086.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Well Site Office	709 636 4147
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 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/...)	
	279.0		
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/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost /unit	Consumed
BARITE-HALLIBU...	0.00	60.0
BARITE-HALLIBU...	0.00	84.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	HOUSEKEEPI... (RIG FLOOR)
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/26/2010
 Report #: 60.0, DFS: 47.63
 Depth Progress: 17.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #18, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
17	311.0mm, GFI23B, PP3525	0.33	2-2-WT-A-E-0.00-NO-HR	515	1.8

Nozzles (mm)	String Length (m)	OD (mm)
11.1/11.1/14.3/14.3	2,071.43	311.2

String Components
 SMITH GFI23B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,069.00	2,086.00	125.00	70.50	2.0		24	80	24,750			0.0



Daily Drilling

Report for: 10/27/2010

Report #: 61.0, DFS: 48.63

Depth Progress: 38.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	Slate/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 6	Road Condition FAIR/ ROUGH	Hole Condition GOOD

Operations at Report Time
DRILLING 311MM HOLE @ 2140 m

Operations Next Report Period
DRILLING AHEAD

Operations Summary
NO ACCIDENTS OR INCIDENTS.
NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
DRILL 311MM HOLE FROM 2086M TO 2124M.
CHANGED CAP GASKET ON #1 MUD PUMP AND CHANGED SEAT ON #2 PUMP.
HELD BOP DRILL
CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
MANIFOLD VALVE ALIGNMENT DEGASSER LINE
GREASED TRAVELING BLOCKS AND CROWN
VISUAL INSPECTION OF EASY RIDER COUNTER WEIGHTS
CHECKED MECHANICAL CROWN SAVER

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:15	2.25	2.25	6	TRIPS	CONTINUE TRIP IN HOLE FROM 1398m TO 2086M WASING LAST 2 SINGLES TO BOTTOM
02:15	03:15	1.00	3.25	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 2086M TO 2087m<PATTERN BIT>
03:15	03:30	0.25	3.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
03:30	06:45	3.25	6.75	2	DRILL ACTUAL	CONTINUE TO DRILL 311mm HOLE FROM 2087m TO 2091m
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	CONTINUE TO DRILL 311mm HOLE FROM 2091m TO 2101M
12:00	15:00	3.00	15.00	2	DRILL ACTUAL	DRILL 311MM HOLE FROM/2101M TO 2107M
15:00	15:15	0.25	15.25	21	SAFETY MEETING	DRILLS/BOP, ETC. DISSUSED WELL CONTROL WITH GREEN HAND AND ONSITE SUPERVISORS.
15:15	18:00	2.75	18.00	2	DRILL ACTUAL	DRILL 311MM HOLE FROM/2107M TO 2113
18:00	18:15	0.25	18.25	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION ANNULAR 32 SEC CLOSE OPEN
18:15	18:45	0.50	18.75	2	DRILL ACTUAL	DRILL 311MM HOLE FROM/2113M TO 2114M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	19:15	0.25	19.25	25		REPLACE CAP GASKET ON PUMP#1
19:15	21:00	1.75	21.00	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2114M TO 2120M
21:00	22:00	1.00	22.00	25		CHANGE GASKET ON PUMP#1,CHANGE SEAT PUMP#2
22:00	23:30	1.50	23.50	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 2120M TO 2124
23:30	23:45	0.25	23.75	21	SAFETY MEETING	BOP DRILL
23:45	00:00	0.25	24.00	25		CONNECTIONS,CYCLE PUMPS FOR VERTATRAC

2,109.00mKB, 10/27/2010 16:00

Type KLA SHIELD	Time 16:00	Depth (mKB) 2,109.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 76	PV Override (cp) 30.0	YP Override (Pa) 13.000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 11.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 13.000
Whole Mud Added (m³) 5.00	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 4.00	Reserve Mud Volume (m³) 22.90	Active Mud Volume (m³) 222.00		

AFE Number	Total AFE Amount
Daily Cost Total 88,380.12	Cum Cost To Date 4,550,622.07
Daily Mud Cost 819.12	Mud Additive Cost To Date 120,456.45
Depth Start (mKB) 2,086.00	Depth End (mKB) 2,124.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Well Site Office	709 636 4147
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	2.0
GEL	19.30	2.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	BOP DRILL

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #19, Drilling Assembly					
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
18	311.0mm, GF15B, PN4571	0.33	2-2-WT-A-E-0.00-NO-HR	575	1.8
Nozzles (mm)		String Length (m)		OD (mm)	
14.3/14.3/12.7/12.7		2,220.35		311.0	
String Components					
SMITH GF15B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	2,086.00	2,101.00	15.00	9.25	1.6		18	80	24,600			0.0
Original Hole	2,101.00	2,124.00	38.00	18.75	2.4		21	80	22,800			0.0



Daily Drilling

Report for: 10/28/2010
 Report #: 62.0, DFS: 49.63
 Depth Progress: 39.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather Showers	Temperature (°C) 8	Road Condition FAIR/ ROUGH	Hole Condition GOOD

Operations at Report Time
DRILLING 311MM HOLE @ 2175 m

Operations Next Report Period
DRILLING AHEAD

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 DRILL 311MM HOLE FROM 2142M TO 2163M.
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 GREASED TRAVELING BLOCKS AND CROWN
 CHECKED MECHANICAL CROWN SAVER

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 311mm HOLE FROM 2124M TO 2127M
01:45	02:00	0.25	2.00	7	RIG SERVICE	RIG SERVICE GREASE WASHPIPE,CHECK OILS,FUNCTION CROWN SAVER,FUNCTION ANNULAR
02:00	06:45	4.75	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2127M TO 2138M
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 FROM 2138M TO 2145M
12:00	17:15	5.25	17.25	2	DRILL ACTUAL	DRILL 311MM HOLE FROM/2145M TO 2154M
17:15	18:15	1.00	18.25	25		PICK UP OFF BOTTOM TO ADJUST PARAMETERS
18:15	18:30	0.25	18.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION UPPER AND LOWER PIPE RAMS 4 SEC CLOSE
18:30	18:45	0.25	18.75	2	DRILL ACTUAL	DRILL 311MM HOLE FROM/2154M TO 2155M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	20:15	1.25	20.25	25		PICK UP OFF BOTTOM TO ADJUST PARAMETERS
20:15	00:00	3.75	24.00	2	DRILL ACTUAL	DRILL 311mm FROM 2155M TO 2163M

2,152.00mKB, 10/28/2010 16:30

Type KLA SHIELD	Time 16:30	Depth (mKB) 2,152.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 72	PV Override (cp) 32.0	YP Override (Pa) 11,000
Gel 10 sec (Pa) 6,000	Gel 10 min (Pa) 11,000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 13,000
Whole Mud Added (m³) 4.40	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 5.00	Reserve Mud Volume (m³) 23.90	Active Mud Volume (m³) 223.00		

BHA #19, Drilling Assembly

Bit Run 18	Drill Bit 311.0mm, GF15B, PN4571	Length (m) 0.33	IADC Bit Dull 2-2-WT-A-E-0.00-NO-HR	TFA (incl Noz) (mm²) 575	BHA ROP... 1.8
Nozzles (mm) 14.3/14.3/12.7/12.7	String Length (m) 2,220.35	OD (mm) 311.0			

String Components
 SMITH GF15B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

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	2,124.00	2,145.00	59.00	30.25	1.8		25	80	24,300			0.0
Original Hole	2,145.00	2,163.00	77.00	39.50	1.9		25	80	24,000			0.0

AFE Number	Total AFE Amount
Daily Cost Total 60,716.50	Cum Cost To Date 4,611,338.57
Daily Mud Cost 3,573.83	Mud Additive Cost To Date 124,030.28
Depth Start (mKB) 2,124.00	Depth End (mKB) 2,163.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts

Job Contact	Mobile
Well Site Office	709 636 4147
Ian O'leary	709 725 4365
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s... Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
BARITE-HALLIBU...	0.00	84.0
Defoam X	390.26	1.0
KLA STOP	1,233.57	1.0
BARITE-HALLIBU...	0.00	120.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	MOUSE HOLE CONNECTIONS
00:00	Safety Meeting	CLEANING VACUUM

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/29/2010
Report #: 63.0, DFS: 50.63
Depth Progress: 40.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,163.00	2,183.00	97.00	51.00	1.7		25	70	20,000			0.0
Original Hole	2,183.00	2,203.00	117.00	61.00	2.0		25	75	20,500			0.0

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Daily Drilling

Report for: 10/29/2010
 Report #: 63.0, DFS: 50.63
 Depth Progress: 40.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather Rain	Temperature (°C) 9	Road Condition FAIR/ ROUGH	Hole Condition GOOD

Operations at Report Time
DRILLING 311MM HOLE @ 2211 m

Operations Next Report Period
DRILLING AHEAD

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 DRILL 311MM HOLE FROM 2163M TO 2203M.
 CHANGED HEAD AND LINER IN #2 MUD PUMP
 HELD BOP DRILL
 CHECKED B.O.P. AND MANIFOLD SHACK VALVE ALIGNMENT
 VIS INSP BRAKE LINKAGE PINS DEADMAN ANCHOR STABBING VALVE W/KEY INSIDE BOP
 MANIFOLD VALVE ALIGNMENT DEGASSER LINE
 GREASED TRAVELING BLOCKS AND CROWN
 CHECKED MECHANICAL CROWN SAVER2

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 FROM 2163M TO 2169M
03:15	03:30	0.25	3.50	7	RIG SERVICE	RIG SERVICE GREASE WASHPIPE,CHECK OILS,FUNCTION CROWN SAVER
03:30	06:45	3.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2169M TO 2174M
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 FROM 2174M TO 2183M
12:00	12:30	0.50	12.50	2	DRILL ACTUAL	DRILL 311M HOLE FROM 2183M TO 2184M
12:30	12:45	0.25	12.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OLI LEVELS FUNCTION ANNULAR 32SEC CLOSE
12:45	13:00	0.25	13.00	25		CONNECTION AND CYCLE PUMPS FOR VERTATRAK
13:00	18:45	5.75	18.75	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 2184M TO 2196M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:00	2.00	21.00	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 2196M TO 2199
21:00	22:00	1.00	22.00	8	REPAIR RIG	CHANGE MIDDLE LINER PUMP#1
22:00	23:45	1.75	23.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2199M TO 2203M
23:45	00:00	0.25	24.00	25		CONNECTION,CYCLE PUMPS FOR VERTATRAK

2,191.00mKB, 10/29/2010 16:30

Type KLA SHIELD	Time 16:30	Depth (mKB) 2,191.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 76	PV Override (cp) 32.0	YP Override (Pa) 11.000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 11.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 13.000
Whole Mud Added (m³) 8.20	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 6.00	Reserve Mud Volume (m³) 15.70	Active Mud Volume (m³) 228.00		

BHA #19, Drilling Assembly

Bit Run 18	Drill Bit 311.0mm, GF15B, PN4571	Length (m) 0.33	IADC Bit Dull 2-2-WT-A-E-0.00-NO-HR	TFA (incl Noz) (mm²) 575	BHA ROP... 1.8
Nozzles (mm) 14.3/14.3/12.7/12.7	String Length (m) 2,220.35	OD (mm) 311.0			

String Components
 SMITH GF15B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
Daily Cost Total 67,773.00	Cum Cost To Date 4,679,111.57
Daily Mud Cost 2,197.00	Mud Additive Cost To Date 126,227.28
Depth Start (mKB) 2,163.00	Depth End (mKB) 2,203.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	279.0
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	279.0
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
BARITE-HALLIBU...	0.00	115.0
Defoam X	390.26	1.0
ULTRA CAP	233.72	2.0
BARITE-HALLIBU...	0.00	13.0
BARITE-MI	22.70	59.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	REPAIRING PUMP MOTOR
00:00	Safety Meeting	RECOGNIZING THE SYMPTOMS OFF FROST BITE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/30/2010
Report #: 64.0, DFS: 51.63
Depth Progress: 20.00

Well Name: NALCOR ET.AL FINNEGAN #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 Tg
Original Hole	2,203.00	2,213.00	127.00	71.50	1.0		25	72	20,700			
Original Hole	2,213.00	2,223.00	137.00	75.75	2.4		26	72	20,600			0.0



Daily Drilling

Report for: 10/30/2010
 Report #: 64.0, DFS: 51.63
 Depth Progress: 20.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN / WINDY	Temperature (°C) 7	Road Condition FAIR/ ROUGH	Hole Condition TIGHT

Operations at Report Time DRILLING 311MM HOLE @ 2224m	Operations Next Report Period DRILL AHEAD
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Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 DRILLED 311MM HOLE FROM 2203 m TO 2223M.
 CHANGED 2 SEATS IN #2 MUD PUMP
 CIRCULATED HOLE CLEAN AND PULLED OUT FOR BIT CHANGE
 TIGHT HOLE TO 2160 m.
 STARTED RUNNING IN HOLE WITH NEW INSERT BIT.
 MONITORING SEAMUS WELL HEAD PRESSURES AND RECORDING SAME EVERY 2 HOURS

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 311mm HOLE FROM 2203M TO 2207M
02:00	03:00	1.00	3.00	8	REPAIR RIG	REPLACE HEAD,2 SEATS BELT SIDE IN PUMP #2
03:00	05:15	2.25	5.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2207M TO 2210
05:15	05:30	0.25	5.50	7	RIG SERVICE	RIG SERVICE
05:30	06:45	1.25	6.75	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2210M TO 2212M
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 FROM 2211M TO 2220M
12:00	13:45	1.75	13.75	2	DRILL ACTUAL	DRILL 311M HOLE FROM 2220M TO 2223M
13:45	14:00	0.25	14.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION ANNULAR 32SEC CLOSE FUNCTION CROWN SAVER PRIOR TO TRIP O.O.H
14:00	14:30	0.50	14.50	5	COND MUD & CIRC	CIRCULATE AND CONDITION PRIOR TO BIT TRIP
14:30	17:00	2.50	17.00	3	REAMING	PULLING TIGH HOLE FROM 2205M 2153M PUMPED OUT 4 SINGLES DRILL PIPE
17:00	18:45	1.75	18.75	6	TRIPS	CONT TRIP OUT OF HOLE WITH FLOW CHECKS@2206M-2016M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	23:30	4.50	23.50	6	TRIPS	CONT TO TRIP OUT OF HOLE WITH FLOW CHECKS@ 2206,2016,1160,335M,OUT OFF HOLE
23:30	00:00	0.50	24.00	20	DIR. WORK	CHECK FLOATSUB,FILTER SUB

2,223.00mKB, 10/30/2010 14:30

Type KLA SHIELD	Time 14:30	Depth (mKB) 2,223.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 76	PV Override (cp) 30.0	YP Override (Pa) 12,000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 11.000	Filtrate (mL/30min) 8.0	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 0.3	Solids (%) 10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.400	Pm (mL/mL)	Gel 30 min (Pa) 13,000
Whole Mud Added (m³) 7.30	Mud Lost to Hole (m³)	Mud Lost to Surface (m³) 6.00	Reserve Mud Volume (m³) 15.90	Active Mud Volume (m³) 230.00		

BHA #19, Drilling Assembly

Bit Run 18	Drill Bit 311.0mm, GF15B, PN4571	Length (m) 0.33	IADC Bit Dull 2-2-WT-A-E-0.00-NO-HR	TFA (incl Noz) (mm²) 575	BHA ROP... 1.8
Nozzles (mm) 14.3/14.3/12.7/12.7	String Length (m) 2,220.35	OD (mm) 311.0			

String Components
 SMITH GF15B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
Daily Cost Total 54,699.00	Cum Cost To Date 4,733,810.57
Daily Mud Cost 6,441.34	Mud Additive Cost To Date 132,668.62
Depth Start (mKB) 2,203.00	Depth End (mKB) 2,223.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Well Site Office	709 636 4147
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
POLY PAC UL	134.93	2.0
ULTRA CAP	233.72	2.0
BARITE-MI	22.70	42.0
ULTRA CAP	233.72	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
POLY PAC R	134.93	2.0
BARITE-MI	22.70	84.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIG TONG OPERATIONS
00:00	Safety Meeting	TRIPPING

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 10/31/2010
Report #: 65.0, DFS: 52.63
Depth Progress: 33.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,223.00	2,231.00	8.00	4.75	1.7		25	72	21,000			
Original Hole	2,231.00	2,256.00	33.00	15.75	2.3		25	72	21,500			0.0



Daily Drilling

Report for: 10/31/2010
 Report #: 65.0, DFS: 52.63
 Depth Progress: 33.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 1	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING 311MM HOLE @ 2270m		Operations Next Report Period DRILL TO ICP 2285 m,WIPER TRIP	

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 DRILLED 311MM HOLE FROM 2223 m TO 2256 m.

FUEL @0600 191cm.

Day Tour Notes:

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	DRAIN MOTOR,BREAK OFF BIT,MAKE UP BIT,GUAGE DOG SUB
00:30	03:00	2.50	3.00	6	TRIPS	TRIP IN HOLE FROM 33M TO 1037M
03:00	03:45	0.75	3.75	20	DIR. WORK	KELLY UP, FILL PIPE ,TEST VERTITRAC
03:45	05:15	1.50	5.25	6	TRIPS	TRIP IN HOLE FROM 1037M TO 2181M
05:15	06:45	1.50	6.75	6	TRIPS	WASH TO BOTTOM
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	11:45	4.75	11.75	2	DRILL ACTUAL	DRILL 311MM HOLE PATTERN BIT FROM 2223M-2231M
11:45	12:00	0.25	12.00	25		CYCLE PUMPS FOR VERTATRAC
12:00	14:45	2.75	14.75	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 2231M TO 2237M
14:45	15:00	0.25	15.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION ANNULAR 32SEC CLOSE
15:00	15:15	0.25	15.25	15	TEST B.O.P.	ACCUMULATOR FUNCTION TEST / START PRESSURE 21000 KPA, CLOSE ANNULAR 32 SEC 12000 KPA REMAINING, CLOSE UPPER PIPE RAMS 6 SEC 11000 KPA REAMINING, CLOSE LOWER PIPE RAMS 6 SEC 10000 KPA REMAINING, OPEN HCR 2 SEC 9700 KPA REMAINING , RECAHRGE 1 MIN 36 SEC
15:15	18:45	3.50	18.75	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 2237M TO 2245M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	DRILL 311MM HOLE FROM 2245M TO 2256M
23:45	00:00	0.25	24.00	25		CONNECTIONS AND CYCLE PUMPS FOR VERTATRAC

2,238.00mKB, 10/31/2010 00:00

Type Polymer	Time 00:00	Depth (mKB) 2,238.00	Density (kg/m³) 1255.0	Funnel Viscosity (s/L) 80	PV Override (cp) 30.0	YP Override (Pa) 12.000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 11.000	Filtrate (mL/30min) 6.2	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 10.5	Solids (%) 10.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 80.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 13.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³) 225.00		

BHA #20, Drilling Assembly

Bit Run 19	Drill Bit 311.0mm, GFI28B, PP7015	Length (m) 0.33	IADC Bit Dull 1-1-WT-A-0-0.00-NO-CP	TFA (incl Noz) (mm²) 911	BHA ROP... 1.9	
Nozzles (mm) 18.0/18.0/16.0/16.0	String Length (m) 2,277.16	OD (mm) 311.0				

String Components
 SMITH GFI28B, DOG SUB, VERTITRAC, SUB - FILTER, FLOAT SUB, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
Daily Cost Total 55,492.87	Cum Cost To Date 4,789,303.44
Daily Mud Cost 6,190.87	Mud Additive Cost To Date 138,859.49
Depth Start (mKB) 2,223.00	Depth End (mKB) 2,256.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian Oleary	709 725 4365
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.	Rig Number 11		
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635		
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
KLA STOP	1,233.57	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
POLY PAC UL	134.93	2.0
ULTRA CAP	233.72	2.0
BARITE-MI	22.70	100.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	GREASE CROWN SHEAVES
00:00	Safety Meeting	HYPOTHERMIA

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/1/2010
 Report #: 66.0, DFS: 53.63
 Depth Progress: 29.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) -2	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time PULLING OUT TO LOG		Operations Next Report Period LOG INTERMEDIATE SECTION	

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)

DRILLED 311MM HOLE FROM 2256 m TO INTREMEDATE CASING POINT 2285 m.
 CIRCULATED HOLE CLEAN. PULLED OUT TO WIPER TRIP. PULLED TIGHT TO 2223 M.
 WASHED TO BOTTOM. CIRCULATED AND INCREASED MUD DENSITY TO 1290 kg/m3.

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 FROM 2256M TO 2264M
03:45	04:00	0.25	4.00	7	RIG SERVICE	RIG SERVICE / FUNCTION ANNULAR 32 SEC TO CLOSE, GREASED ALL COMPONENTS, CHECKED ALL OILS
04:00	06:15	2.25	6.25	2	DRILL ACTUAL	DRILL 311mm HOLE FROM 2264M TO 2268M
06:15	06:45	0.50	6.75	7	RIG SERVICE	CHANGE HEAD IN PUMP#2
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 FROM 2268M TO 2279M
12:00	14:45	2.75	14.75	2	DRILL ACTUAL	DRILL 311M HOLE FROM 2279M TO 2285M
14:45	15:00	0.25	15.00	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION UPPER PIPE RAM 4SEC CLOSE
15:00	15:45	0.75	15.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO WIPER TRIP
15:45	16:15	0.50	16.25	6	TRIPS	TRIP OUT OF HOLE OUT OF HOLE WITH FLOW CHECKS@ 2275M
16:15	18:45	2.50	18.75	3	REAMING	PULLING TIGHT HOLE FROM 2275M PUMP OUT SINGLES TO 2209M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	19:30	0.50	19.50	6	TRIPS	CONT PUMP OUT SINGLES FROM 2209
19:30	19:45	0.25	19.75	6	TRIPS	RACK BACK KELLY
19:45	20:00	0.25	20.00	6	TRIPS	TRIP OUT OF HOLE FROM 2209M TO 2100M
20:00	20:30	0.50	20.50	6	TRIPS	TRIP IN HOLE FROM 2100M TO 2130M
20:30	22:00	1.50	22.00	3	REAMING	PICK UP KELLY REAM TO BOTTOM
22:00	22:30	0.50	22.50	10	DEV. SURVEY	WIRELINE SURVEYS - MULTI-SHOT SURVEYS ON PUMP#1
22:30	00:00	1.50	24.00	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP,CLEAN HOLE

1,270.00mKB, 11/1/2010 00:00						
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Polymer	00:00	1,270.00	1270.0	78	32.0	13.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
6.000	11.000	5.6	1.0	9.0	0.3	10.3
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	PF (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		2,100.000	80.000			13.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
				225.00		

BHA #20, Drilling Assembly						
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...	
19	311.0mm, GFI28B, PP7015	0.33	1-1-WT-A-0-0.00-NO-CP	911	1.9	
Nozzles (mm)		String Length (m)		OD (mm)		
18.0/18.0/16.0/16.0		2,277.16		311.0		
String Components						
SMITH GFI28B, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles						
Comment						

AFE Number		Total AFE Amount	
Daily Cost Total 70,305.16		Cum Cost To Date 4,859,608.60	
Daily Mud Cost 6,891.16		Mud Additive Cost To Date 145,750.65	
Depth Start (mKB) 2,256.00		Depth End (mKB) 2,285.00	
Target Formation Aguathuna		Target Depth (mKB) 3,250.00	
Last Casing String Surface, 570.00mKB			
Daily Contacts			
Job Contact		Mobile	
Well Site Office		709 636 4147	
Bill Williams		709 765 1074	
Ian Oleary		709 725 4365	
Randy Kavanagh		709 363 7261	
STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.		Rig Number 11	
Rig Supervisor Martin Gould		Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		
Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
Defoam X	390.26	1.0	
POLY PAC R	134.93	2.0	
ULTRA CAP	233.72	2.0	
ENGINEERING / EQUIPMENT	1,950.00	1.0	
BARITE-MI	22.70	168.0	
Safety Checks			
Time	Type	Description	
12:00	Safety Meeting	RIG SERVICE	
00:00	Safety Meeting	TRIPPING	
Wellbores			
Wellbore Name	KO MD (mKB)		
Original Hole			



Daily Drilling

Report for: 11/2/2010
Report #: 67.0, DFS: 54.63
Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #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
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Daily Drilling

Report for: 11/2/2010
 Report #: 67.0, DFS: 54.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather LIGHT SNOW	Temperature (°C) -3	Road Condition FAIR	Hole Condition GOOD

Operations at Report Time LOGGING	Operations Next Report Period LOGGING
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Operations Summary
 NO ACCIDENTS OR INCIDENTS REPORTED.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)

PULLED OUT OF HOLE. LAYED OUT DIRECTIONAL TOOLS.
 HELD SAFETY MEETING WITH BAKER ATLAS AND RIGGED TO RUN LOGS.
 RAN IN HOLE WITH LOG # 1 - GR-XMAC - STAR ORIENTATION - 6 ARM CALIPER.

CALCULATED=15.24 MEASURED=16.44 DIFFERNCE=+1.2 FUNCTION BLIND RAMS O.O.H 4SEC CLOSE

Day Tour Notes:
 RIG FUEL @224 BOILER 200 CM
 BOILER SHUT IN @1130HR

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	CIRCULATE HOLE CLEAN
01:00	03:00	2.00	3.00	5	COND MUD & CIRC	MIX BARITE,BRING WEIGHT UP TO 1290kg/m3
03:00	03:45	0.75	3.75	6	TRIPS	FLOW CHECK AT 2277M, LAY OUT 5 SINGLES
03:45	04:00	0.25	4.00	25		PUMP PILL,BLOW OUT KELLY
04:00	06:45	2.75	6.75	6	TRIPS	TRIP OUT OF HOLE FROM 2208M WITH FLOW CHECKS AT 2274M,2208M,1076M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	10:00	3.00	10.00	6	TRIPS	CONTINUE TO TRIP OUT OF HOLE WITH FLOW CHECKS@551M-180M-0M
10:00	10:15	0.25	10.25	21	SAFETY MEETING	SAFETY MEETING WITH BAKER HUGHES DIRECTIONAL HAND AND ON SITE SUPERVISORS
10:15	11:15	1.00	11.25	20	DIR. WORK	DIRECTIONAL WORK BREAK DOWN FLOAT SUB, FILTER SUB, AND VERTITRAK
11:15	11:30	0.25	11.50	21	SAFETY MEETING	SAFETY MEETING WITH BAKER HUGHES WIRELINE ON SITE SUPERVISORS PRIOR TO RIG IN
11:30	12:00	0.50	12.00	11	WIRELINE LOGS	RIG IN WIRELINE
12:00	18:45	6.75	18.75	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS RUN#1GR-XMAC-STAR-ORIENTAION-6 ARM-CAL
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
19:00	23:30	4.50	23.50	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS
23:30	00:00	0.50	24.00	11	WIRELINE LOGS	LAY OUT TOOLS FROM LOGGING RUN #1

2,285.00mKB, 11/2/2010 00:00						
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Polymer	00:00	2,285.00	1290.0	83	32.0	13.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
6.000	12.000	5.6	1.0	9.0	1.0	11.3
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
		2,100.000	80.000			14.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
				225.00		

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					

AFE Number	Total AFE Amount
Daily Cost Total 61,032.94	Cum Cost To Date 4,920,641.54
Daily Mud Cost 5,763.60	Mud Additive Cost To Date 151,514.25
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00

Last Casing String
 Surface, 570.00mKB

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
BARITE-MI	22.70	168.0
ENGINEERING / EQUIPMENT	1,950.00	1.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	LOGGING
00:00	Safety Meeting	LOGGING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/3/2010
 Report #: 68.0, DFS: 55.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather LIGHT SNOW	Temperature (°C) -1	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time LOGGING		Operations Next Report Period LOGGING	

Operations Summary
 NO ACCIDENTS OR INCIDENTS REPORTED.
 1 CARIBOU SITED AT KM 2 ON 5 MILE FOAD.

RAN IN HOLE WITH LOG # 2, GAMMA RAY DUEL 2DL. NEUTRON STAR ORIENTATION HDIL

RAN IN HOLE WITH LOG # 3, RCI PRESSURE PT AND FLUID SAMPLES

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	RIG UP TOOLS FOR LOGGING RUN #2
00:30	06:45	6.25	6.75	11	WIRELINE LOGS	LOGGING OPEN HOLE RUN #2 GAMMA RAY,DUAL-2DL,NEUTRON,STAR,ORIENTATION,HDIL
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	12:00	5.00	12.00	11	WIRELINE LOGS	CONTINUE TO LOG OPEN HOLE RUN # 2
12:00	12:15	0.25	12.25	21	SAFETY MEETING	DRILLS/BOP, ETC. / DID NOT FUNCTION B.O.P. DUE TO WIRELINE IN WELL BORE
12:15	18:15	6.00	18.25	11	WIRELINE LOGS	CONTINUE TO RUN OPEN HOLE LOGS , RUN #2
18:15	18:30	0.25	18.50	11	WIRELINE LOGS	WIRELINE LOGS , RIG OUT TOOLS FROM RUN #2
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	00:00	5.25	24.00	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS #3 RCL PRESSURE PTs& FLUID SAMPLES

2,285.00mKB, 11/3/2010 00:00

Type Polymer	Time 00:00	Depth (mKB) 2,285.00	Density (kg/m³) 1290.0	Funnel Viscosity (s/L) 80	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH 9.0	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 To

AFE Number	Total AFE Amount
Daily Cost Total 64,260.00	Cum Cost To Date 4,984,901.54
Daily Mud Cost 1,950.00	Mud Additive Cost To Date 153,464.25
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	LOGGING
00:00	Safety Meeting	STEAM

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/4/2010

Report #: 69.0, DFS: 56.63

Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 0	Road Condition FAIR/ROUGH	Hole Condition GOOD
Operations at Report Time LOGGING		Operations Next Report Period LOGGING	

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SITED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)

RUN IN HOLE WITH LOG # 4 RE CORE

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:45	6.75	6.75	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS RUN#3 RCL PRESSURE PTS&FLUID SAMPLES
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	08:30	1.50	8.50	11	WIRELINE LOGS	CONTINUE LOGGING - OPEN HOLE LOGS RUN#3 RCL
08:30	09:45	1.25	9.75	11	WIRELINE LOGS	WIRELINE LOGS , RIG OUT TOOLS FROM LOGGING RUN #3
09:45	10:15	0.50	10.25	11	WIRELINE LOGS	WIRELINE LOGS , RIG UP TOOLS FOR LOGGING RUN #4
10:15	12:00	1.75	12.00	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS RUN #4 RCORE , REACHED 2260m @ 1145 HRS AND CUT CORES ON THE WAY BACK TO SURFACE
12:00	18:30	6.50	18.50	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS , CONTINUE LOGGING RUN #4
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	19:00	0.25	19.00	21	SAFETY MEETING	DRILLS/BOP, ETC. WITH CREW REVIEWED WELL CONTROL PROCEDURES DID NOT FUNCTION BOP.DUE TO WIRELINE IN WELL BORE
19:00	00:00	5.00	24.00	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS , CONTINUE LOGGING RUN #4

2,285.00mKB, 11/4/2010 00:00

Type Polymer	Time 00:00	Depth (mKB) 2,285.00	Density (kg/m³) 1290.0	Funnel Viscosity (s/L) 130	PV Override (cp) 32.0	YP Override (Pa) 13,000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH 9.0	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) 206.00		

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
Daily Cost Total 48,642.00	Cum Cost To Date 5,033,543.54
Daily Mud Cost 1,950.00	Mud Additive Cost To Date 155,414.25
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts

Job Contact	Mobile
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	WINTER WEATHER CONDITIONS
00:00	Safety Meeting	BOP DRILL

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/5/2010
Report #: 70.0, DFS: 57.63
Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #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 Tg



Daily Drilling

Report for: 11/5/2010
 Report #: 70.0, DFS: 57.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST + WINDY	Temperature (°C) 4	Road Condition FAIR	Hole Condition GOOD

Operations at Report Time
CIRCULATING

Operations Next Report Period
CIRCULATE + PULL OUT OF HOLE, RUN CASING

Operations Summary
 NO ACCIDENTS OR INCIDENTS.
 NO WILDLIFE SIGHTED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)
 FUEL 265CM, BOILER 200CM

THE GAMMA WITH THE VSP FAILED. THEY HAD TO SYNC THE VSP WITH THE PREVIOUS GAMMA RUN FROM RUN # 2

RUN IN HOLE WITH LOG RUN # 5 VSP. COMPLETED LOGGING PROGRAM.
 LAYED OUT 3 - 9" DRILL COLLARS, MADE UP BIT AND RAN IN HOLE TO SHOE.
 SLIPPED AND CUT 13 m. DRILL LINE.
 ON BOTTOM THIS AM. NO FILL. CIRC HOLE AND PREPARING TO RUN CASING

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 CONTINUE RUN #4
04:00	05:00	1.00	5.00	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS RIG UP TOOLS FOR RUN#5
05:00	06:45	1.75	6.75	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS RUN#5 V.S.P
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	12:00	5.00	12.00	11	WIRELINE LOGS	CONTINUE LOGGING - CONTINUE OPEN HOLE LOGS RUN #5
12:00	18:30	6.50	18.50	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS , CONTINUE LOGGING RUN #5
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	19:00	0.25	19.00	11	WIRELINE LOGS	LOGGING - OPEN HOLE LOGS , CONTINUE LOGGING RUN #5
19:00	20:00	1.00	20.00	11	WIRELINE LOGS	RIGT OUT LOGGERS
20:00	20:15	0.25	20.25	21	SAFETY MEETING	JSA (JOB SAFETY ANALYSIS) REVIEW 2-C PRIOR TO LAYING OUT 9\ DC
20:15	20:45	0.50	20.75	6	TRIPS	LAY OUT 9\ DRILL COLLARS
20:45	23:15	2.50	23.25	6	TRIPS	MAKE UP BIT TRIP IN HOLE WITH FLOW CHECKS@ 314M
23:15	23:30	0.25	23.50	21	SAFETY MEETING	JSA (JOB SAFETY ANALYSIS) REVIEW 9-1 PRIOR TO SLIP CUT DRILL LINE
23:30	00:00	0.50	24.00	9	CUT OFF DRILLING LINE	SLIP/CUT DRILLING LINE 13M

2,285.00mKB, 11/5/2010 00:00

Type Polymer	Time 00:00	Depth (mKB) 2,285.00	Density (kg/m³) 1290.0	Funnel Viscosity (s/L) 130	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH 9.0	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					

AFE Number	Total AFE Amount
Daily Cost Total 413,066.00	Cum Cost To Date 5,446,609.54
Daily Mud Cost 1,950.00	Mud Additive Cost To Date 157,364.25
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts

Job Contact	Mobile
Well Site Office	709 636 4147
Tim Kennedy	780 913 1869
Bill Williams	709 765 1074
Ian O'leary	709 725 4365

STONEHAM DRILLING INC., 11

Contractor STONEHAM DRILLING INC.	Rig Number 11
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Rig Supervisor Martin Gould	Phone Mobile 709 765 0635
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1, GARDNER DENVER, PZ-11

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...) 279.0
Pres (kPa)	Slow Spd No	Strokes (s...) Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	WINDY CONDITIONS
00:00	Safety Meeting	SLIP CUT DRILL LINE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/6/2010
 Report #: 71.0, DFS: 58.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 18	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time RUNNING CASING		Operations Next Report Period RUN CASING + CEMENT.	
Operations Summary NO ACCIDENTS OR INCIDENTS. NO WILDLIFE SIGHTED IN GENERAL AREA AROUND RIG.(CARIBOU, MOOSE OR BEAR)			
CIRCULATED HOLE CLEAN. PULLED OUT OF HOLE,LAYED OUT 8" AND 9" DRILL COLLARS. HELD SAFETY MEETING WITH WEATHERFORD CASING RUNNING CREW. RUN INTERMEDIATE CASING			
THIS MORNING WE ARE AT 1760M AND SHOULD BE ON BOTTOM CIRC BY 1 PM AND STARTING THE CEMENTING PROCESS BY THIS AFTERNOON			

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:30	0.50	0.50	9	CUT OFF DRILLING LINE	CONTINUE SLIP/CUT DRILLING LINE RESET CROWN SAVER
00:30	00:45	0.25	0.75	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING COMPONENTS CHECKED ALL OIL LEVELS FUNCTION ANNULAR 32 SEC CLOSE
00:45	01:30	0.75	1.50	6	TRIPS	CONTINUE TRIP IN HOLE WITH FLOW CHECKS@1142M
01:30	03:00	1.50	3.00	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
03:00	04:45	1.75	4.75	6	TRIPS	CONTINUE TRIP IN HOLE WITH FLOW CHECKS@2150M
04:45	06:00	1.25	6.00	3	REAMING	WASH AND CLEAN FROM 2248M TO 2285M
06:00	06:45	0.75	6.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING CREW HANDOVER
07:00	10:45	3.75	10.75	5	COND MUD & CIRC	CONTINUE CONDITION MUD & CIRCULATE
10:45	12:00	1.25	12.00	6	TRIPS	TRIP OUT OF HOLE TO RUN CASING WITH 10 MINUTE FLOW CHECKS @ 2274m & 2137m
12:00	17:45	5.75	17.75	6	TRIPS	CONTINUE TO TRIP OUT OF HOLE WITH 10 MINUTE FLOW CHECKS @ 1148m , 321m & OUT OF HOLE / MEASURED VOLUME 15.10m³, CALCULATED VOLUME 13.59m³ , DIFFERENCE 1.51m³ / PIPE STRAP IN STICK 1989.55m , PIPE STRAP IN TALLY 1988.43m , DIFFERENCE 1.12m
17:45	18:00	0.25	18.00	25		PULL WEAR BUSHING
18:00	18:30	0.50	18.50	12	RUN CASING AND CEMENT	RIG UP TO RUN CASING
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	19:45	1.00	19.75	21	SAFETY MEETING	SAFETY MEETING WITH WITHERFORD AND CREW ONSITE SUPERVISORS PRIOR TO RUNNING 244.5MM CASING
19:45	20:30	0.75	20.50	12	RUN CASING AND CEMENT	CONTINUE RIG UP CHANGE OUT POWER UNIT
20:30	00:00	3.50	24.00	12	RUN CASING AND CEMENT	MAKE UP FLOAT&SHOE 8200FT/LB RUN 244.5MM CASING

2,285.00mKB, 11/6/2010 00:00						
Type Polymer	Time 00:00	Depth (mKB) 2,285.00	Density (kg/m³) 1290.0	Funnel Viscosity (s/L) 88	PV Override (cp) 32.0	YP Override (Pa) 14.000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 12.000	Filtrate (mL/30min) 5.6	Filter Cake (mm) 1.0	pH 9.0	Sand (%) 1.0	Solids (%) 11.3
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,100.000	Calcium (mg/L) 80.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 14.000
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
Daily Cost Total 48,199.58	Cum Cost To Date 5,494,809.12
Daily Mud Cost 7,868.58	Mud Additive Cost To Date 165,232.83
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Surface, 570.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Well Site Office	709 636 4147
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869

STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.	Rig Number 11		
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635		
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
DUO VIS	99.09	2.0
BARITE-MI	22.70	252.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	RUNNING CASING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/7/2010
 Report #: 72.0, DFS: 59.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather DRIZZLE / MIST	Temperature (°C) 8	Road Condition FAIR	Hole Condition Good
Operations at Report Time WOC		Operations Next Report Period WOC, SET SLIPS, PRESS TEST	

Operations Summary
 Morning Tour Notes:
 CHECKED MANIFOLD VALVE ALIGNMENT
 CHECKED BRAKE LINKAGE PINS DEADMAN ANCHOR
 JTA REVIEW 12-2 RUNNING CASING 2-B CATWALK OPERATION 6-A SETTING AND PULLING SLIPS
 FUEL@0600HR RIG 18933 L, BOILER 12521 L
 FUNCTION CROWN SAVER @ 6:45 L.T
 Day Tour Notes:
 CHECK BRAKES AND LINKAGES
 CHECK ALL WELL CONTROL EQUIPMENT/CHECK STABBING AND INSIDE BOP VALVE/FUNCTION FLARE IGNITOR
 REVIEWED JTA # 12-5 WORKING WITH POWER TONGS/6-A SETTING AND PULLING SLIPS/2-B CATWALK
 OPERATIONS
 NO INCIDENTS OR ACCIDENTS
 RUN 166 JTS OF 244.5 MM 64.735 L-80 WITH THE SHOE SET AT 2276 METERS
 CIRC AND CONDITION MUD
 PREPARE TO AND START CEMENTING WITH BJ

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:00	2.00	2.00	12	RUN CASING AND CEMENT	CONTINUE TO RUN 244.5mm CASING
02:00	07:45	5.75	7.75	12	RUN CASING AND CEMENT	CONTINUE TO RUN 244.5mm CASING
07:45	08:00	0.25	8.00	21	SAFETY MEETING	CREW HANDOVER SAFETY MEETING
08:00	13:00	5.00	13.00	12	RUN CASING AND CEMENT	CONTINUE TO RUN 244.5mm CASING
13:00	15:00	2.00	15.00	12	RUN CASING AND CEMENT	CONTINUE TO RUN 244.5mm CASING
15:00	19:30	4.50	19.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
19:30	19:45	0.25	19.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:45	22:00	2.25	22.00	5	COND MUD & CIRC	CONTINUE TO CONDITION MUD & CIRCULATE 244.5mm INTERMEDIATE CASING
22:00	22:15	0.25	22.25	21	SAFETY MEETING	SAFETY MEETING WITH BJ CEMENTERS
22:15	01:00	2.75	25.00	12	RUN CASING AND CEMENT	CEMENT 244.5mm INTERMEDIATE CASING

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
Daily Cost Total 665,711.24	Cum Cost To Date 6,160,520.36
Daily Mud Cost 7,160.24	Mud Additive Cost To Date 172,393.07
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869
Ian Oleary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm)	Stroke (mm)	Vol/Stk OR (m³/...)	
	279.0		
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
ULTRA CAP	233.72	7.0
LIGNITE	34.00	21.0
BARITE-MI	22.70	126.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	RUNNING CASING
00:00	Safety Meeting	NIPPLE DOWN B.O.P.

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/8/2010
 Report #: 73.0, DFS: 60.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) 8	Road Condition FAIR	Hole Condition CASED
Operations at Report Time WOC		Operations Next Report Period WOC, SET SLIPS, PRES TEST	
Operations Summary NO ACCIDENTS OR INCIDENTS NO MOOSE, BEARS OR CARIBOU SIGHTED RIG FUEL 17566 l, BOILER 12521 l			
<p>RUN 166 JTS OF 244.5 MM 64.735 L-80 WITH THE SHOE SET AT 2276 METERS PUMP 9m3 SWEEP PRESSURE TEST SURFACE LINES to 32,000kpa CEMENTED CASING PUMP 3m3 SCAVENGER PUMPED 37.03 t LEAD FILL LITE 2-100, YIELD 1.317m3/t, 48.8 m3 1518 kg/m3, PUMPED 37.9 t TAIL CLASS G OIL, YIELD .757m3t, 28.7m3 @ 1901 kg/m3 DROP PLUG DISPLACED WITH 1.8 m3 WATER, PUMP 80m3 MUD W RIG, 5.2m3 WATER W BJ, DID NOT BUMP PLUG, FLOATS HELD, ANNULAR WAS STATIC, 1 m3 OF SCAVENGER TO SURFACE. FINISHED CEMENTING WITH BJ AS PER PROGRAM PLUG DOWN AT 00:45 HRS RIGGED OUT CEMENTERS AND WAIT ON CEMENT AFTER 24 HOURS LEAD IS LIQUID, TAIL IS SET AFTER 30 JOURS LEAD IS MALLABLE WHILE WAITING ON CEMENT PRES TESTED MANIFOLD</p>			

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:45	0.75	0.75	12	RUN CASING AND CEMENT	CONTINUE TO CEMENT WITH BJ
00:45	01:00	0.25	1.00	12	RUN CASING AND CEMENT	RIG OUT CEMENTERS
01:00	02:30	1.50	2.50	14	NIPPLE UP B.O.P.	NIPPLE DOWN BOPS / TEAR APART FLOW TEE / BREAK APART HCR LINE AND TAKE BOLTS OUT OF CASING BOWL TO LIFT STACK
02:30	06:30	4.00	6.50	13	WAIT ON CEMENT	WAIT ON CEMENT
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	12:00	5.25	12.00	13	WAIT ON CEMENT	WAIT ON CEMENT
12:00	17:00	5.00	17.00	13	WAIT ON CEMENT	WAIT ON CEMENT
17:00	18:45	1.75	18.75	15	TEST B.O.P.	PRESSURE TEST CHOKE MANIFOLD VALVES 1500KPA LOW AND 21000 KPA HIGH 15 MINUTES EACH
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:00	2.00	21.00	15	TEST B.O.P.	CONTINUE TO PRESSURE TEST CHOKE MANIFOLD 1500 KPA LOW 21000 KPA HIGH 15 MINUTES EACH , TEST STABBING VALVE AND INSIDE B.O.P. TO 1500 KPA LOW FOR 10 MINUTES AND 21000KPA HIGH FOR 15 MINUTES
21:00	00:00	3.00	24.00	13	WAIT ON CEMENT	WAIT ON CEMENT

2,285.00mKB, 11/8/2010 00:00

Type Polymer	Time 00:00	Depth (mKB) 2,285.00	Density (kg/m³) 1320.0	Funnel Viscosity (s/L) 80	PV Override (cp) 24.0	YP Override (Pa) 6.000
Gel 10 sec (Pa) 5.000	Gel 10 min (Pa) 12.000	Filtrate (mL/30min)	Filter Cake (mm)	pH 10.5	Sand (%)	Solids (%) 11.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,600.000	Calcium (mg/L) 80.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 16.000
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
Daily Cost Total 47,878.16	Cum Cost To Date 6,208,398.52
Daily Mud Cost 1,950.00	Mud Additive Cost To Date 174,343.07
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Tim Kennedy	780 913 1869
Ian O'leary	709 725 4365
Bill Williams	709 765 1074
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	PRESSURE TEST
00:00	Safety Meeting	MIXING CHEMICALS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/9/2010
 Report #: 74.0, DFS: 61.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather DRIZZLE / MIST	Temperature (°C) 7	Road Condition FAIR	Hole Condition CASED

Operations at Report Time: WAIT ON SLIPS
 Operations Next Report Period: WAIT ON SLIPS

Operations Summary
 Morning Tour Notes:
 CHECKED BRAKES AND LINKAGES
 Day Tour Notes:
 CHECK BRAKES AND LINKAGES

NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 RIG FUEL 16505 I, BOILER 12521 I

Time log comments:
 WAIT ON CEMENT
 DISCOVERED GAS LAST NIGHT MIGRATING UP THE ANNULAR OF THE 9 5/8"
 BOLT BOP BACK ONTO THE BOWEL AND HOOK UP DEGASSER LINE
 SHUT IN AND FLOW THROUGH A 12/64 CHOKE WITH 116 kpa PRESSURE
 WAIT ON SLIPS AND SEALS FROM VETCO

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:30	6.50	6.50	13	WAIT ON CEMENT	WAIT ON CEMENT
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	12:00	5.25	12.00	13	WAIT ON CEMENT	WAIT ON CEMENT
12:00	18:45	6.75	18.75	13	WAIT ON CEMENT	WAIT ON CEMENT
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:30	2.50	21.50	14	NIPPLE UP B.O.P.	NIPPLE UP BOP
21:30	21:45	0.25	21.75	21	SAFETY MEETING	SAFETY MEETING WITH ALL ON-SITE PERSONNEL REGARDING WELL CONTROL SITUATION < GAS MIGRATING THROUGH CEMENT >
21:45	00:00	2.25	24.00	25		SHUT-IN WELL , MONITOR FLOW RATES AND CASING PRESSURE

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)
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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
Daily Cost Total 50,501.23	Cum Cost To Date 6,258,899.75
Daily Mud Cost 2,416.98	Mud Additive Cost To Date 176,760.05
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Bill Williams	709 765 1074
Well Site Office	709 636 4147

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No		

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
CITRIC ACID	158.68	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
SODIUM BI CARB	27.53	4.0
DUO VIS	99.09	2.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	WORKING WITH WELDER
00:00	Safety Meeting	WELL CONTROL

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/10/2010
 Report #: 75.0, DFS: 62.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) -3	Road Condition FAIR	Hole Condition CASED
Operations at Report Time WAIT ON SLIPS		Operations Next Report Period WAIT ON SLIPS	

Operations Summary
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED

SHUT IN AND FLOW THROUGH A 10/64 CHOKE WITH 52 kpa PRESSURE
 WAIT ON SLIPS AND SEALS FROM VETCO
 RIG FUEL 16505 I, BOILER 12521 I

WITH THE GAS MIGRATING UP THE ANNULUS THE VISUAL THAT WE HAD WAS THAT THERE WAS A FAIR AMOUNT OF GAS. TO HELP US ALL GET A VISUAL ON WHAT WE HAD WE BURNT OFF THE GAS THROUGH THE FLARE STACK WITH THE SAME PROCESS THAT WE ROUTINELY USE WHEN BURNING OFF TRIP OR KICK GAS. DURING THIS PROCESS WE FOUND THAT WITH THE WIND BLOWING THE FLARE WOULD BARELY STAY LIT. PICTURES WERE TAKEN AND ARE ON FILE.

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:30	6.50	6.50	25		SHUT-IN WELL , MONITOR FLOW RATES AND CASING PRESSURE
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	12:00	5.25	12.00	25		SHUT-IN WELL , MONITOR FLOW RATES AND CASING PRESSURE
12:00	18:45	6.75	18.75	25		SHUT-IN-WELL/MONITOR FLOW RATES AND CASING PRESSURE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	00:00	5.00	24.00	25		SHUT-IN-WELL/MONITOR FLOW RATES AND CASING PRESSURE

2,285.00mKB, 11/10/2010 00:00

Type Polymer	Time 00:00	Depth (mKB) 2,285.00	Density (kg/m³) 1235.0	Funnel Viscosity (s/L) 67	PV Override (cp) 22.0	YP Override (Pa) 9.500
Gel 10 sec (Pa) 5.000	Gel 10 min (Pa) 12.000	Filtrate (mL/30min)	Filter Cake (mm)	pH 9.5	Sand (%)	Solids (%) 10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,800.000	Calcium (mg/L) 80.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 14.000
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

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
Daily Cost Total 50,584.00	Cum Cost To Date 6,309,483.75
Daily Mud Cost 1,950.00	Mud Additive Cost To Date 178,710.05
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Bill Williams	709 765 1074
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015
Pres (kPa)	Slow Spd	Strokes (s...)
	No	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DANGEROUS GOOGS SPILLS
00:00	Safety Meeting	B.O.P. DRILL

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/11/2010

Report #: 76.0, DFS: 63.63

Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) -5	Road Condition FAIR	Hole Condition CASED
Operations at Report Time WAIT ON VACUM TRUCK		Operations Next Report Period SET SLIPS, CUT CASING + PRES TEST	
Operations Summary NO ACCIDENTS OR INCIDENTS NO MOOSE, BEARS OR CARIBOU SIGHTED			
SHUT IN AND FLOW THROUGH A 10/64 CHOKE WITH 75 kpa PRESSURE 1500 scfd			
BREWSTERS MACHINE SHOP AND VETCO ARE BOTH HERE. NOMAX BALACLAVAS AND GLOVE'S ARE ON LOCATION			
1 VACUM TRUCK TO BE HERE BY 10:00 AM			
RIG FUEL 23958 L. BOILER 16505 I			

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	DRILLS/BOP, ETC. , B.O.P. DRILL HELD WITH CREW / WELL ALREADY FLOWING THROUGH CHOKE MANIFOLD < DISCUSSED CREW DUTIES >
00:15	06:30	6.25	6.50	25		SHUT-IN WELL , MONITOR FLOW RATES AND CASING PRESSURE
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
06:45	11:00	4.25	11.00	25		SHUT-IN WELL , MONITOR FLOW RATES AND CASING PRESSURE
11:00	11:15	0.25	11.25	21	SAFETY MEETING	SAFETY MEETING/MOMENT OF SILENCE FOR REMEMBRANCE DAY
11:15	12:00	0.75	12.00	25		SHUT-IN WELL , MONITOR FLOW RATES AND CASING PRESSURE
12:00	12:15	0.25	12.25	21	SAFETY MEETING	DRILLS/BOP, ETC. / DISCUSSED ALL CREW MEMBERS DUTIES AND KICK WARNING SIGNS
12:15	18:45	6.50	18.75	25		SHUT-IN-WELL / MONITOR FLOW RATES AND CASING PRESSURE
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING / CREW HANDOVER
19:00	23:00	4.00	23.00	25		SHUT-IN-WELL / MONITOR FLOW RATES AND CASING PRESSURE
23:00	23:15	0.25	23.25	21	SAFETY MEETING	MOMENT OF SILENCE TO REMEMBER LOST SOLDIERS FOR REMEMBRANCE DAY
23:15	00:00	0.75	24.00	25		SHUT-IN WELL / MONITOR FLOW RATES AND CASING PRESSURE

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					

AFE Number	Total AFE Amount
Daily Cost Total 42,466.86	Cum Cost To Date 6,351,950.61
Daily Mud Cost 2,219.86	Mud Additive Cost To Date 180,929.91
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,285.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Pres (kPa)	Slow Spd No	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Description	Cost/(unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
POLY PAC UL	134.93	2.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	WORKING WITH STEAM

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/11/2010
Report #: 76.0, DFS: 63.63
Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #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 Tg
[Empty data table area]												



Daily Drilling

Report for: 11/12/2010
 Report #: 77.0, DFS: 64.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 2	Road Condition FAIR	Hole Condition CASED
Operations at Report Time DRILL FLOAT COLLAR		Operations Next Report Period DRILL OUT, FIT	
Operations Summary NO ACCIDENTS OR INCIDENTS NO MOOSE, BEARS OR CARIBOU SIGHTED SHUT IN AND FLOW THROUGH A 10/64 CHOKE WITH 75 kpa PRESSURE 15,000 scfd THIS MORNING THE VENT IS FLOWING STRAIGHT THROUGH AND NO PRESSURE ON THE GAUGE FUEL RIG 23958, BOILER 16505, BRANDT 297			
HELD SAFETY WITH ALL PERSONNEL AND REVIEWED RISK ASSESSMENT. CONNECTED VAC TRUCK TO 2" LINE ON CASING BOWL TO VENT GAS. REMOVED BOLTS FROM BOP/CASING BOWL FLANGE.LIFTED BOP'S AND SET CASING SLIPS @ 80 da. SHUT IN AND HELD 10" VACUM FOR 5 MINS, BLEED OFF VACUM AND SHUT IN, DID BUBBLE TEST ON SEAL AND NO BUBBLES COLD CUT CASING,REMOVE CUT OFF JOINT AND NIPPLED UP BOP'S. INSTALLED FLOW NIPPLE, FLOW LINE AND CATCH CAN. PRESSURE TEST INTERMEDIATE CASING AGAINST BLIND RAMS 21,000 kpa 10 min - OK. PRESSURE TEST BOP'S AND RELATED WELL CONTROL EQUIPMENT, 1500 kpa LOW, 21,000 kpa HIGH. ALL TESTS 15 min- OK. PRESSURE TEST STANDPIPE TO MUD PUMPS 1500 kpa LOW, 21,000 HIGH - OK FUNCTION TEST ACCUMULATOR. 4 FUNCTION TEST. START PRESSURE 20700 kpa. REMAINING PRESSURE 11200 kpa. TIME TO RECHARGE 1 min 34 secs. PRECHARGE 7000 kpa.			

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:45	6.75	6.75	25		SHUT-IN WELL / MONITOR FLOW RATES AND CASING PRESSURE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	11:45	4.75	11.75	25		SHUT-IN WELL , MONITOR FLOW RATES AND CASING PRESSURE
11:45	12:00	0.25	12.00	21	SAFETY MEETING	SAFETY MEETING/WITH ALL CREW MEMBERS,RIG MANAGER,AND ENGINEER ON NIPPLING DOWN BOP STACK AND SETTING SLIPS
12:00	12:30	0.50	12.50	14	NIPPLE UP B.O.P.	NIPPLE DOWN BOPS
12:30	13:00	0.50	13.00	25		SET CASING SLIPS @ 80 DAN
13:00	14:45	1.75	14.75	25		RIG IN CLAMSHELL CASING CUTTER AND CUT CASING AND RIGOUT
14:45	18:30	3.75	18.50	14	NIPPLE UP B.O.P.	NIPPLE UP BOP/INSTALL FLOW NIPPLE/FLOW LINE/KATCHCAN
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	19:15	0.50	19.25	14	NIPPLE UP B.O.P.	NIPPLE UP BOP / INSTALL CHAINS TO POSITION B.O.P. TO HOLE CENTRE AND PRESSURE UP ACCUMLATOR
19:15	19:30	0.25	19.50	21	SAFETY MEETING	SAFETY MEETING WITH BJ ON PRESSURE TESTING B.O.P.
19:30	21:00	1.50	21.00	15	TEST B.O.P.	PRESSURE TEST BOPS / TEST #1 BLIND RAMS , CASING , CHOKE LINE & INSIDE KILL LINE VALVE TO 1500KPA LOW AND 21000KPA HIGH FOR 15 MINUTES EACH / TEST#2 VALVE ON DRILLING SPOOL TO 1500KPA LOW AND 21000KPA HIGH FOR 15 MINUTES EACH
21:00	21:30	0.50	21.50	15	TEST B.O.P.	PRESSURE TEST BOPS / TEST #3 ANNULAR , OUTSIDE KILL LINE VALVE , MANUAL HCR VALVE , LOWER KELLY VALVE TO 1500KPA LOW AND 21000KPA HIGH FOR 15 MINUTES EACH

AFE Number		Total AFE Amount	
Daily Cost Total 71,296.00		Cum Cost To Date 6,423,246.61	
Daily Mud Cost 1,950.00		Mud Additive Cost To Date 182,879.91	
Depth Start (mKB) 2,285.00		Depth End (mKB) 2,285.00	
Target Formation Aguathuna		Target Depth (mKB) 3,250.00	
Last Casing String Intermediate, 2,276.00mKB			
Daily Contacts			
Job Contact		Mobile	
Tim Kennedy		780 913 1869	
Well Site Office		709 636 4147	
Bill Williams		709 765 1074	
Ian Oleary		709 725 4365	
STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.		Rig Number 11	
Rig Supervisor Martin Gould		Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
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 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
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	
ENGINEERING / EQUIPMENT	1,950.00	1.0	
Safety Checks			
Time	Type	Description	
12:00	Safety Meeting	NIPPLE UP BOP STACK	
00:00	Safety Meeting	MAKE UP DIRECTIONAL TOOLS	
Wellbores			
Wellbore Name	KO MD (mKB)		
Original Hole			



Daily Drilling

Report for: 11/13/2010
 Report #: 78.0, DFS: 65.63
 Depth Progress: 6.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) 4	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING @ 2318		Operations Next Report Period DRILL AHEAD	

Operations Summary
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE VENT IS FLOWING STRAIGHT THROUGH AND NO PRESSURE ON THE GAUGE

MADE UP PDC BIT AND DIRECTIONAL TOOLS AND RAN IN HOLE. TAGGED CEMENT @ 2163 m.
 DRILLED CEMENT, FLOAT COLLAR AND SHOE @ 2276 m. DRILLED 215 mm HOLE TO 2290 m.
 CIRCULATED HOLE CLEAN AND HELD SAFETY MEETING PRIOR TO FORMATION INTEGRITY TEST.
 MUD DENSITY 1245 kg/m3. SHOE @ 2276 m.
 APPLIED SURFACE PRESSURE 21,000 kpa. NO PRESSURE LOSS.
 LEAK OFF GRADIENT - 21.4 kpa/m.. NO FLOW OR PRESSURE CHANGE ON VENTED GAS LINE DURING TEST.
 DRILLED 215 mm HOLE TO 2291 m.

FUEL RIG 23206 L. BOILER 10518 L

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:45	1.75	1.75	20	DIR. WORK	HANDLE DIRECTIONAL TOOLS , PICK UP TOOLS TO RUN IN HOLE AND DRILL OUT
01:45	06:30	4.75	6.50	6	TRIPS	TRIP IN HOLE , PICK UP 8 DRILL COLLARS AND RUN IN HOLE , TEST VERTITRAK @ 398m AND FILL PIPE @ 1365m , LAYDOWN 8 SINGLES
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	08:15	1.50	8.25	6	TRIPS	TRIP IN HOLE , LAYDOWN 6 SINGLES
08:15	08:45	0.50	8.75	2	DRILL ACTUAL	DRILL CEMENT FROM 2163M TO 2168 M
08:45	09:00	0.25	9.00	21	SAFETY MEETING	DRILLS/BOP, ETC. , DISCUSSED CREW DUTIES AND LINE UP MANIFOLD AND B.O.P. VALVES<WELL SECURE IN 56 SEC>
09:00	12:00	3.00	12.00	2	DRILL ACTUAL	CONTINUE TO DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE FROM 2168m TO 2208m
12:00	16:30	4.50	16.50	2	DRILL ACTUAL	CONTINUE TO DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE FROM 2208m 2264m TAGED AND DRILLED FLOAT COLLAR @ 2247.5m FLOW CHECK @ 2264m
16:30	16:45	0.25	16.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS FUNCTION ANNULAR 33 SEC TO CLOSE
16:45	18:30	1.75	18.50	2	DRILL ACTUAL	CONTINUE TO DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE FROM 2264m TO TAGED FLOAT SHOE @ 2275.5
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	19:15	0.50	19.25	2	DRILL ACTUAL	CONTINUE TO DRILL CEMENT/DRILL OUT CEMENT
19:15	21:00	1.75	21.00	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2285m - 2290m
21:00	22:15	1.25	22.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE BOTTOMS UP TO DO FORMATION INTEGRITY TEST
22:15	22:30	0.25	22.50	21	SAFETY MEETING	SAFETY MEETING WITH BJ CONCERNING FORMATION INTEGRITY TEST
22:30	23:00	0.50	23.00	25		FORMATION INTEGRITY TEST
23:00	23:45	0.75	23.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2290m - 2291m
23:45	00:00	0.25	24.00	21	SAFETY MEETING	SAFETY MEETING ABOUT HANDLING TUBLUARS

AFE Number	Total AFE Amount
Daily Cost Total 65,957.00	Cum Cost To Date 6,489,203.61
Daily Mud Cost 3,556.30	Mud Additive Cost To Date 186,436.21
Depth Start (mKB) 2,285.00	Depth End (mKB) 2,291.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Well Site Office	709 636 4147
Bill Williams	709 765 1074
STONEHAM DRILLING INC., 11	
Contractor STONEHAM DRILLING INC.	Rig Number 11
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635

1, GARDNER DENVER, PZ-11			
Pump Number	Pwr (kW)	Rod Dia (mm)	
1			
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number	Pwr (kW)	Rod Dia (mm)	
2			
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 110	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
CITRIC ACID	158.68	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
SODIUM BI CARB	27.53	4.0
CITRIC ACID	158.68	6.0
SODIUM BI CARB	27.53	14.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	BOP DRILL
00:00	Safety Meeting	LOCK-OUT PROCEDURES

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/13/2010
 Report #: 78.0, DFS: 65.63
 Depth Progress: 6.00

Well Name: NALCOR ET.AL FINNEGAN #1

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 #22, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
20	216.0mm, MSi813WUESPX, JD9193	0.23	1-2-CT-A-X-0-BT-TF	570	9.6
Nozzles (mm)	String Length (m)		OD (mm)		
8.7/8.7/8.7/8.7	2,851.05		216.0		

String Components

SMITH MSi813WUESPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 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	2,285.00	2,291.00	6.00	2.50	2.4	1.600	12	90	16,400			0.0



Daily Drilling

Report for: 11/14/2010
 Report #: 79.0, DFS: 66.63
 Depth Progress: 80.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) 0	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING @ 2387		Operations Next Report Period DRILL AHEAD	

Operations Summary
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -10 - 60 kpa. (ALARMS SET @ 70 kpa)

DRILLED 216 mm HOLE FROM 2291 TO 2371m.

FUEL RIG 14847 L, BOILER 9954 L
 BRANDT LIGHT PLANT 510 L FUEL CONSUMPTION IN 24 HOURS

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	DRILL 216mm HOLE FROM 2291m - 2305m
03:00	03:15	0.25	3.25	21	SAFETY MEETING	DRILLS/BOP, ETC., WELL SECURE IN 76 SECONDS, LAST PERSON ON RIG FLOOR IN 42 SECONDS, DISCUSSED CREW DUTIES AND KICK WARNING SIGNS
03:15	03:30	0.25	3.50	7	RIG SERVICE	RIG SERVICE, GREASED MOVING PARTS AND CHECKED OIL LEVELS, F/T UPPER AND LOWER PIPE RAMS < 6 SECONDS TO CLOSE EACH >
03:30	06:30	3.00	6.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2305m - 2318m
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING, CREW HANDOVER MEETING
06:45	08:00	1.25	8.00	25		CHANGE PASON ENCODER
08:00	11:00	3.00	11.00	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2318m - 2335m
11:00	12:00	1.00	12.00	25		CONNECTIONS AND DOWNLINKING VERTITRAK ACCUMULATED
12:00	14:30	2.50	14.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2335m - 2346m
14:30	14:45	0.25	14.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS FUNCTION ANNULAR 35 SEC TO CLOSE
14:45	18:30	3.75	18.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2346m - 2359m
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	23:15	4.50	23.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2359m - 2371m
23:15	23:45	0.50	23.75	25		DOWNLINKING VERTITRAK AND CONNECTION TIME
23:45	00:00	0.25	24.00	20	DIR. WORK	ACCUMULATED DIRECTIONAL SURVEYS

2,344.00mKB, 11/14/2010 00:00

Type Polymer	Time 00:00	Depth (mKB) 2,344.00	Density (kg/m³) 1225.0	Funnel Viscosity (s/L) 55	PV Override (cp) 23.0	YP Override (Pa) 7.500
Gel 10 sec (Pa) 5.000	Gel 10 min (Pa) 15.000	Filtrate (mL/30min) 5.7	Filter Cake (mm) 1.0	pH 10.0	Sand (%)	Solids (%) 9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 2,900.000	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 18.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³) 145.00		

AFE Number	Total AFE Amount
Daily Cost Total 58,462.26	Cum Cost To Date 6,547,665.87
Daily Mud Cost 614.63	Mud Additive Cost To Date 187,050.84
Depth Start (mKB) 2,291.00	Depth End (mKB) 2,371.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Ian Oleary	709 725 4365
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015
Pres (kPa) 5,475	Slow Spd Yes	Strokes (s...) 53
	Eff (%)	

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017
Pres (kPa)	Slow Spd No	Strokes (s...) 110
	Eff (%)	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CITRIC ACID	158.68	2.0
DUO VIS	99.09	3.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	LOADER OPERATIONS

Wellbores

Wellbore Name	KOMD (mKB)
Original Hole	



Daily Drilling

Report for: 11/14/2010
 Report #: 79.0, DFS: 66.63
 Depth Progress: 80.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #22, Drilling Assembly					
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
20	216.0mm, MSi813WUESPX, JD9193	0.23	1-2-CT-A-X-0-BT-TF	570	9.6
Nozzles (mm)		String Length (m)		OD (mm)	
8.7/8.7/8.7/8.7		2,851.05		216.0	
String Components					
SMITH MSi813WUESPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tg
Original Hole	2,291.00	2,325.00	40.00	11.50	3.8	1.600	14	90	16,700	101	105	0.0
Original Hole	2,325.00	2,371.00	86.00	20.50	5.1		14	90	16,700			0.0



Daily Drilling

Report for: 11/15/2010
 Report #: 80.0, DFS: 67.63
 Depth Progress: 98.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) -4	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING @ 2500 m		Operations Next Report Period DRILL AHEAD	

Operations Summary
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -10 - 60 kpa. (ALARMS SET @ 70 kpa)
 KEITH HYNES ON LOCATION IN THE AFTERNOON

DRILLED 216 mm HOLE FROM 2371 TO 2469m.

FUEL RIG 10306 L, BOILER 8765 L
 BRANDT LIGHT PLANT 509 L

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:15	6.25	6.25	2	DRILL	DRILL 216mm HOLE FROM 2371m - 2387m ACTUAL
06:15	06:30	0.25	6.50	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST UPPER AND LOWER PIPE RAMS < 6 SECONDS TO CLOSE EACH >
06:30	06:45	0.25	6.75	21	SAFETY MEETING	DRILLS/BOP, ETC. , DISCUSSED CREW DUTIES AND KICK WARNING SIGNS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
07:00	11:15	4.25	11.25	2	DRILL	DRILL 216mm HOLE FROM 2387m - 2412m ACTUAL
11:15	12:00	0.75	12.00	25		DOWNLINKING VERTITRAK AND CONNECTIONS ACCUM
12:00	15:30	3.50	15.50	2	DRILL	CONTINUE TO DRILL 216mm HOLE FROM 2412m - 2428m ACTUAL
15:30	15:45	0.25	15.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION ANNULAR 36 SEC TO CLOSE
15:45	18:30	2.75	18.50	2	DRILL	CONTINUE TO DRILL 216mm HOLE FROM 2428m - 2442m ACTUAL
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	22:45	4.00	22.75	2	DRILL	CONTINUE TO DRILL 216mm HOLE FROM 2442m - 2469m ACTUAL
22:45	23:30	0.75	23.50	25		ACCUMULATED CONNECTION TIME AND DOWNLINKING VERTITRAK
23:30	00:00	0.50	24.00	20	DIR. WORK	DIRECTIONAL SURVEYS

2,419.00mKB, 11/15/2010 00:00

Type Polymer	Time 00:00	Depth (mKB) 2,419.00	Density (kg/m³) 1225.0	Funnel Viscosity (s/L) 63	PV Override (cp) 24.0	YP Override (Pa) 7.500
Gel 10 sec (Pa) 5.000	Gel 10 min (Pa) 15.000	Filtrate (mL/30min) 6.3	Filter Cake (mm) 1.0	pH 11.0	Sand (%) 9.5	Solids (%) 9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 3,100.000	Calcium (mg/L) 80.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 18.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)	150.00	

BHA #22, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
20	216.0mm, MSi813WUESPX, JD9193	0.23	1-2-CT-A-X-0-BT-TF	570	9.6
Nozzles (mm)	8.7/8.7/8.7/8.7	String Length (m)	2,851.05	OD (mm)	216.0
String Components SMITH MSi813WUESPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
Comment					

AFE Number	Total AFE Amount
Daily Cost Total 57,144.78	Cum Cost To Date 6,604,810.65
Daily Mud Cost 3,120.78	Mud Additive Cost To Date 190,171.62
Depth Start (mKB) 2,371.00	Depth End (mKB) 2,469.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869
Well Site Office	709 636 4147

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 110	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 107	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
DEFOAM X	390.26	3.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	HOUSE KEEPING
00:00	Safety Meeting	DRILLING INTO PRIMARY ZONE

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/15/2010
Report #: 80.0, DFS: 67.63
Depth Progress: 98.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,371.00	2,412.00	127.00	31.00	3.9	1.850	11	102	18,800	102	106	0.0
Original Hole	2,412.00	2,469.00	184.00	41.25	5.6	1.850	14	102	19,500	102	106	0.0



Daily Drilling

Report for: 11/16/2010
 Report #: 81.0, DFS: 68.63
 Depth Progress: 90.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 4	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING @ 2579 m		Operations Next Report Period DRILL AHEAD	
Operations Summary NO ACCIDENTS OR INCIDENTS NO MOOSE, BEARS OR CARIBOU SIGHTED THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK. PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -10 - 60 kpa. (ALARMS SET @ 70 kpa) DRILLED 216 mm HOLE FROM 2469 m. TO 2559 m. COST ADJUSTMENT OF 175,217.35 WAS MADE FOR THE MUD DUE TO AN INTERNAL ERROR WITHIN WELL VIEW THAT WE HAVE NOT BEEN ABLE TO CORRECT IN THE FIELD FUEL RIG 19570 L, BOILER 8013 L BRANDT LIGHT PLANT 510 L			

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 FROM 2469m - 2483m
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST ANNULAR < 32 SECONDS TO CLOSE >
02:45	06:30	3.75	6.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2483m - 2502m
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER MEETING
06:45	11:15	4.50	11.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2502m - 2521m
11:15	12:00	0.75	12.00	25		DOWN LINKING VRETITRAK AND CONNECTIONS ACCUM
12:00	13:15	1.25	13.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2521m - 2524m
13:15	13:30	0.25	13.50	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION TEST UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
13:30	18:45	5.25	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2524m - 2540m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	23:45	4.75	23.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2540 - 2559m
23:45	00:00	0.25	24.00	25		DOWNLINK VERTITRAK AND CONNECTION TIMES

2,525.00mKB, 11/16/2010 00:00						
Type Polymer	Time 00:00	Depth (mKB) 2,525.00	Density (kg/m³) 1225.0	Funnel Viscosity (s/L) 62	PV Override (cp) 23.0	YP Override (Pa) 7.500
Gel 10 sec (Pa) 5.000	Gel 10 min (Pa) 15.000	Filtrate (mL/30min) 5.9	Filter Cake (mm) 1.0	pH 10.5	Sand (%) 10.0	Solids (%) 10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L) 3,000.000	Calcium (mg/L) 80.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 18.000
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 #22, Drilling Assembly						
Bit Run 20	Drill Bit 216.0mm, MSi813WUESPX, JD9193	Length (m) 0.23	IADC Bit Dull 1-2-CT-A-X-0-BT-TF	TFA (incl Noz) (mm²) 570	BHA ROP... 9.6	
Nozzles (mm) 8.7/8.7/8.7/8.7			String Length (m) 2,851.05	OD (mm) 216.0		
String Components SMITH MSi813WUESPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles						
Comment						

AFE Number	Total AFE Amount
Daily Cost Total 242,373.35	Cum Cost To Date 6,847,184.00
Daily Mud Cost 175,217.35	Mud Additive Cost To Date 365,388.97
Depth Start (mKB) 2,469.00	Depth End (mKB) 2,559.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 106	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
POLY PAC UL	134.93	3.0
COST ADJUSTMENT	172,47...	1.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	LOADER OPERATIONS
00:00	Safety Meeting	DRIVING HOME

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/16/2010
Report #: 81.0, DFS: 68.63
Depth Progress: 90.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,469.00	2,507.00	222.00	52.00	3.5		12	102	19,300			0.0
Original Hole	2,507.00	2,559.00	274.00	63.25	4.6		14	102	19,000			0.0



Daily Drilling

Report for: 11/17/2010
 Report #: 82.0, DFS: 69.63
 Depth Progress: 94.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN AND HEAVY WIND	Temperature (°C) 3	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING @ 2695		Operations Next Report Period DRILL AHEAD	

Operations Summary
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -10 - 60 kpa. (ALARMS SET @ 70 kpa)
 DRILLED 216 mm HOLE FROM 2559 m. TO 2653 m.

FUEL RIG 15265 L, BOILER 8013 L
 BRANDT LIGHT PLANT 552 L

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 216mm HOLE FROM 2559m - 2565m
02:00	02:15	0.25	2.25	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST ANNULAR < 33 SECONDS TO CLOSE >
02:15	06:30	4.25	6.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2565m - 2579m
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
06:45	11:15	4.50	11.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2579m - 2599m
11:15	12:00	0.75	12.00	20	DIR. WORK	SURVEYS ,CONNECTIONS,DOWNLINK VERTATRAK
12:00	13:30	1.50	13.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2599M TO 2606M
13:30	13:45	0.25	13.75	7	RIG SERVICE	RIG SERVICE GREASED WASHPIPE,CHECKED ALL OILS,FUNCTIONED UPPER/LOWER PIPE RAMS 5secs TO OPEN/CLOSE
13:45	14:00	0.25	14.00	21	SAFETY MEETING	BOP DRILL
14:00	18:45	4.75	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2606M TO 2632M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
19:00	23:30	4.50	23.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2632M TO 2653m
23:30	00:00	0.50	24.00	25		DOWNLINKING VERTITRAK AND CONNECTIONS ACCUM

2,608.00mKB, 11/17/2010 00:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
Gel 10 sec (Pa)	00:00	2,608.00	1220.0	63	25.0	7.500
Gel 10 min (Pa)	00:00	2,608.00	1220.0	63	25.0	7.500
5.000	17.000	5.7	1.0	10.5	0.3	9.5
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
42			80.000	2.000		20.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		

BHA #22, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
20	216.0mm, MSi813WUESPX, JD9193	0.23	1-2-CT-A-X-0-BT-TF	570	9.6
Nozzles (mm)	String Length (m)	OD (mm)			
8.7/8.7/8.7/8.7	2,851.05	216.0			

String Components
 SMITH MSi813WUESPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
Daily Cost Total 52,776.38	Cum Cost To Date 6,899,960.38
Daily Mud Cost 3,000.38	Mud Additive Cost To Date 368,389.35
Depth Start (mKB) 2,559.00	Depth End (mKB) 2,653.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Well Site Office	709 636 4147
Tim Kennedy	780 913 1869
Ian O'leary	709 725 4365

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)	
152.0	279.0		
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
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 2	Pwr (kW)	Rod Dia (mm)	
152.0	279.0	0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
165.0	279.0	0.017	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No	105	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
	No	105	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
POLY PAC UL	134.93	2.0
Defoam X	390.26	1.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	DRILLING
00:00	Safety Meeting	TONG OPERATIONS

Wellbores

Wellbore Name	KO.MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/17/2010
Report #: 82.0, DFS: 69.63
Depth Progress: 94.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,559.00	2,599.00	314.00	74.00	3.7		15	102	18,800			0.0
Original Hole	2,599.00	2,653.00	368.00	84.75	5.0		19	104	20,100			0.0



Daily Drilling

Report for: 11/18/2010
 Report #: 83.0, DFS: 70.63
 Depth Progress: 105.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN AND HEAVY WIND	Temperature (°C) 2	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING @		Operations Next Report Period DRILL AHEAD	

Operations Summary
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -10 - 60 kpa. (ALARMS SET @ 70 kpa)
 DRILLED 216 mm HOLE FROM 2653 m. TO 2758 m. ***105 METERS***

FUEL RIG 10569 L, BOILER 7826 L
 BRANDT LIGHT PLANT 550 L

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 216mm HOLE FROM 2653m TO 2675m
04:30	04:45	0.25	4.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION ANNULAR 36 SEC TO CLOSE
04:45	06:45	2.00	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2675m TO 2685m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	09:30	2.50	9.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2685m TO 2702m
09:30	10:15	0.75	10.25	20	DIR. WORK	TROUBLE SHOOT DOWNLINK TO VERTATRAK
10:15	11:15	1.00	11.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2702M TO 2710M
11:15	12:00	0.75	12.00	25		CONNECTIONS AND DOWN LINK VERTATRAK (ACCUMULATED)
12:00	16:45	4.75	16.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2710M TO 2730M
16:45	17:00	0.25	17.00	7	RIG SERVICE	RIG SERVICE GREASED WASH PIPE,ALL MOVING PARTS,CHECKED ALL OILS, FUNCTIONED UPPER/LOWER PIPE RAMS 5secs TO OPEN/CLOSE
17:00	18:45	1.75	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2730M TO 2740m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER MEETING
19:00	22:15	3.25	22.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2740m TO 2758m
22:15	00:00	1.75	24.00	25		DOWNLINKING VERTITRAK AND CONNECTION ACCUM

2,722.00mKB, 11/18/2010 15:00							
Type KLA SHIELD	Time 15:00	Depth (mKB) 2,722.00	Density (kg/m³) 1210.0	Funnel Viscosity (s/L) 64	PV Override (cp) 24.0	YP Override (Pa) 7.500	
Gel 10 sec (Pa) 4.000	Gel 10 min (Pa) 15.000	Filtrate (mL/30min) 6.3	Filter Cake (mm) 1.0	pH 10.5	Sand (%) 0.3	Solids (%) 9.5	
MBT (kg/m³) 42	Alkalinity (mL/mL)	Chlorides (mg/L) 3,100.000	Calcium (mg/L) 120.000	Pf (mL/mL) 2.000	Pm (mL/mL)	Gel 30 min (Pa) 18.000	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)	159.00		

BHA #22, Drilling Assembly						
Bit Run 20	Drill Bit 216.0mm, MSi813WUESPX, JD9193	Length (m) 0.23	IADC Bit Dull 1-2-CT-A-X-0-BT-TF	TFA (incl Noz) (mm²) 570	BHA ROP... 9.6	
Nozzles (mm) 8.7/8.7/8.7/8.7			String Length (m) 2,851.05	OD (mm) 216.0		
String Components SMITH MSi813WUESPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles						
Comment						

AFE Number	Total AFE Amount
Daily Cost Total 55,720.36	Cum Cost To Date 6,955,680.74
Daily Mud Cost 2,911.92	Mud Additive Cost To Date 371,301.27
Depth Start (mKB) 2,653.00	Depth End (mKB) 2,758.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa) 4,222	Slow Spd Yes	Strokes (s...) 55	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa) 20,000	Slow Spd No	Strokes (s...) 105	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
POLY PAC UL	134.93	2.0
DUO VIS	99.09	4.0
SODA ASH	29.57	10.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	DRILLING
00:00	Safety Meeting	CATWALK OPERATIONS

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/18/2010
Report #: 83.0, DFS: 70.63
Depth Progress: 105.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,653.00	2,758.00	473.00	94.50	10.8		18	102	19,500			0.0

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Daily Drilling

Report for: 11/19/2010
 Report #: 84.0, DFS: 71.63
 Depth Progress: 630.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 0	Road Condition FAIR	Hole Condition TIGHT AT 2744-2731
Operations at Report Time TRIPPING FOR VERTI TRAC		Operations Next Report Period FINISH TRIP AND DRILL AHEAD	

Operations Summary
 Morning Tour Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -10 - 60 kpa. (ALARMS SET @ 70 kpa)
 DRILLED 216 mm HOLE FROM 2758m. TO 2855m. ***97 METERS***
 THE VERTI TRAC QUIT PULSING, CIRC BOTTOMS UP AND PULL OUT OF THE HOLE FOR BAKER

FUEL RIG 21293 L, BOILER 7200 L
 BRANDT LIGHT PLANT 510 L

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 FROM 2758m TO 2771m
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION HCR 4 SEC TO OPEN/FUNCTION ANNULAR 35 SEC TO CLOSE
02:45	06:45	4.00	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2771m TO 2793m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	11:00	4.00	11.00	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2793m TO 2818m
11:00	12:00	1.00	12.00	20	DIR. WORK	CONNECTIONS AND DOWNLINK VERTITRAK(ACCUMULATED)
12:00	14:15	2.25	14.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2818M TO 2826M
14:15	14:30	0.25	14.50	7	RIG SERVICE	RIG SERVICE GREASED ALL MOVING PARTS AND WASHPIPE,FUNCTIONED UPPER/LOWER PIPE RAMS 6secs TO OPEN /CLOSE
14:30	21:45	7.25	21.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2826M TO 2855m
21:45	23:00	1.25	23.00	25		DOWNLINKING VERTITRAK AND CONNECTIONS ACCUM
23:00	23:45	0.75	23.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
23:45	00:00	0.25	24.00	6	TRIPS	TRIP OUT OF HOLE WITH F/C @ 2850m

2,827.00mKB, 11/19/2010 14:30

Type KLA SHIELD	Time 14:30	Depth (mKB) 2,827.00	Density (kg/m³) 1210.0	Funnel Viscosity (s/L) 65	PV Override (cp) 25.0	YP Override (Pa) 8.000
Gel 10 sec (Pa) 4.000	Gel 10 min (Pa) 16.000	Filtrate (mL/30min) 6.2	Filter Cake (mm) 1.0	pH 10.5	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m³) 35	Alkalinity (mL/mL)	Chlorides (mg/L) 3,100.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.900	Pm (mL/mL)	Gel 30 min (Pa) 19.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³) 157.30		

BHA #22, Drilling Assembly

Bit Run 20	Drill Bit 216.0mm, MSi813WUESPX, JD9193	Length (m) 0.23	IADC Bit Dull 1-2-CT-A-X-0-BT-TF	TFA (incl Noz) (mm²) 570	BHA ROP... 9.6	
Nozzles (mm) 8.7/8.7/8.7/8.7	String Length (m) 2,851.05	OD (mm) 216.0				

String Components
 SMITH MSi813WUESPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment

AFE Number	Total AFE Amount
Daily Cost Total 65,525.96	Cum Cost To Date 7,021,206.70
Daily Mud Cost 3,468.96	Mud Additive Cost To Date 374,770.23
Depth Start (mKB) 2,758.00	Depth End (mKB) 2,855.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869
Ian O'Leary	709 725 4365

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 104	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
POLY PAC UL	134.93	2.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
SODA ASH	29.57	10.0
BARITE-MI	22.70	42.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	DRIFTING CASING
00:00	Safety Meeting	TRIPPING OUT

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/19/2010
Report #: 84.0, DFS: 71.63
Depth Progress: 630.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,758.00	2,818.00	533.00	105....	5.7		20	102	19,800			0.0
Original Hole	2,285.00	2,855.00	1,103.00	114....	60.0		18	102	19,100			



Daily Drilling

Report for: 11/20/2010
 Report #: 85.0, DFS: 72.63
 Depth Progress: 10.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather LIGHT SNOW	Temperature (°C) -5	Road Condition WINDY	Hole Condition TIGHT AT 2744-2731
Operations at Report Time DRILLING	Operations Next Report Period DRILL AHEAD		

Operations Summary

Daily Notes:

NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -25 - 137 kpa.

TRIP OUT VERTI TRAC, CIRC AND WORK TIGHT HOLE @ 2743-2731 (140 DAN)
 FINISH OUT, PICK UP NEW VERTI TRAC AND REED 713, TEST, SLIP & CUT AND FINISH IN HOLE
 WIPE 15 METERS WITH GAMMA,
 DRILLED 216 mm HOLE FROM 2855m. TO 2865m

FUEL RIG 18534 L, BOILER 5947 L
 BRANDT LIGHT PLANT 510 L

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	CONTINUE TO TRIP OUT OF HOLE TO 2736m
00:30	01:30	1.00	1.50	3	REAMING	PICK UP KELLY WORK TIGHT HOLE FROM 2744m TO 2731m PULLING 140 DAN REGAINED PULSES ON VERTITRAC WHILE WORKING TIGHT HOLE CONTINUE CIRCULATEING HOLE TESTING VERTITRAC
01:30	02:15	0.75	2.25	6	TRIPS	CONTINUE TRIP OUT OF HOLE FROM 2736m TO 2578m WITH F/C @ 2578M
02:15	03:30	1.25	3.50	5	COND MUD & CIRC	CIRCULATE HOLE TESTING VERTITRAC/PUMP PILL AND BLOW KELLY
03:30	10:15	6.75	10.25	6	TRIPS	CONTINUE TRIP OUT OF HOLE WITH F/C @ 2277m/1479m/652m /400m OUT OFF HOLE TRIP SHEET RECORD MEASURED 20.25m ³ CALCULATED 16.47m ³ DIFFERENCE 3.78m ³ FUNCTIONED BLIND RAMS OUT OFF HOLE 4secs TO OPEN/ CLOSE
10:15	12:00	1.75	12.00	20	DIR. WORK	PICK UP VERTATRAC,MONEL,PREP THREADS AND SEAL ON NAVI GAMMA TOOL
12:00	13:30	1.50	13.50	6	TRIPS	TRIP IN HOLE FROM 31M TO 430M
13:30	14:15	0.75	14.25	20	DIR. WORK	PICK UP KELLY SHALLOW TEST TRUTRAC
14:15	14:30	0.25	14.50	21	SAFETY MEETING	SAFETY MEETING ON SLIP AND CUT DRILLING LINE
14:30	15:30	1.00	15.50	9	CUT OFF DRILLING LINE	SLIP & CUT 21.2m OF DRILLING LINE
15:30	15:45	0.25	15.75	7	RIG SERVICE	RIG SERVICE , GREASED MOVING PARTS AND CHECKED OIL LEVELS , FUNCTION TEST UPPER AND LOWER PIPE RAMS < 6 SECONDS TO CLOSE EACH >
15:45	18:30	2.75	18.50	6	TRIPS	CONTINUE TO TRIP IN HOLE FILL PIPE AT 430,1500,2250M, FLOW CHECKS AT 430M,1500M,2206m
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	21:45	3.00	21.75	6	TRIPS	CONTINUE TRIP IN HOLE FROM 2206m TO 2855m LOGGING GAMMA FROM 2840m TO 2855m @ 1m EVERY 2 MIN
21:45	00:00	2.25	24.00	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2855m TO 2865m

2,855.00mKB, 11/20/2010 14:30

Type KLA SHIELD	Time 14:30	Depth (mKB) 2,855.00	Density (kg/m ³) 1210.0	Funnel Viscosity (s/L) 79	PV Override (cp) 24.0	YP Override (Pa) 8.500
Gel 10 sec (Pa) 4.000	Gel 10 min (Pa) 16.000	Filtrate (mL/30min) 5.8	Filter Cake (mm) 1.0	pH 10.5	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m ³) 35	Alkalinity (mL/mL)	Chlorides (mg/L) 3,100.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.900	Pm (mL/mL)	Gel 30 min (Pa) 19.000
Whole Mud Added (m ³)	Mud Lost to Hole (m ³)	Mud Lost to Surface (m ³)	Reserve Mud Volume (m ³)	Active Mud Volume (m ³) 166.30		

AFE Number	Total AFE Amount
Daily Cost Total 90,466.90	Cum Cost To Date 7,111,673.60
Daily Mud Cost 5,105.90	Mud Additive Cost To Date 379,876.13
Depth Start (mKB) 2,855.00	Depth End (mKB) 2,865.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m ³ /...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m ³ /...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m ³ /...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 90	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 104	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
SODA ASH	29.57	10.0
BARITE-MI	22.70	126.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	SLIP AND CUT DRILLING LINE
00:00	Safety Meeting	MIXING CHEMICALS

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/21/2010
 Report #: 86.0, DFS: 73.63
 Depth Progress: 91.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5.40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather LIGHT SNOW + WINDY	Temperature (°C) -5	Road Condition FAIR	Hole Condition GOOD
Operations at Report Time DRILLING		Operations Next Report Period DRILLING AHEAD	

Operations Summary
 Daily Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -25 - 137 kpa.
 DRILLING AHEAD FROM 2865-2956 FOR 91 METERS

FUEL RIG 13584 L, BOILER 4633 L
 BRANDT LIGHT PLANT 457 L

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 216mm HOLE FROM 2865m TO 2881m
04:15	04:30	0.25	4.50	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION ANNULAR 35 SEC TO CLOSE
04:30	06:45	2.25	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2881m TO 2891m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	11:15	4.25	11.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2891m TO 2914M
11:15	12:00	0.75	12.00	25		CONNECTIONS AND DOWN LINK VERTATRAK(ACCUMULATED)
12:00	14:15	2.25	14.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2914M TO 2922M
14:15	14:30	0.25	14.50	7	RIG SERVICE	RIG SERVICE GREASED DRIVESHAFTS, WASHPIPE, DRAWWORKS, CHECKED ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
14:30	18:45	4.25	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2922M TO 2937M
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	DRILL 216mm HOLE FROM 2937M TO 2956m
23:30	00:00	0.50	24.00	25		DOWNLINKING VERTITRAK AND CONNECTIONS ACCUM

2,925.00mKB, 11/21/2010 14:30

Type Kla Sheild	Time 14:30	Depth (mKB) 2,925.00	Density (kg/m³) 1210.0	Funnel Viscosity (s/L) 66	PV Override (cp) 24.0	YP Override (Pa) 8.000
Gel 10 sec (Pa) 4.000	Gel 10 min (Pa) 15.000	Filtrate (mL/30min) 5.9	Filter Cake (mm) 1.0	pH 10.5	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m³) 35	Alkalinity (mL/mL)	Chlorides (mg/L) 3,100.000	Calcium (mg/L) 40.000	Pf (mL/mL) 1.800	Pm (mL/mL)	Gel 30 min (Pa) 18.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)	166.40	

BHA #23, Drilling Assembly

Bit Run 21	Drill Bit 216.0mm, M713-A3D, 225678	Length (m) 0.22	IADC Bit Dull -----	TFA (incl Noz) (mm²) 419	BHA ROP... 8.6	
Nozzles (mm) 8.7/8.7/8.7/8.7	String Length (m) 2,974.42	OD (mm) 216.0				

String Components
 REED M713-A3D, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment
 7*8.7

Wellbore Name		KO.MD (mKB)
Original Hole		

AFE Number	Total AFE Amount
Daily Cost Total 51,869.26	Cum Cost To Date 7,163,542.86
Daily Mud Cost 3,173.26	Mud Additive Cost To Date 383,049.39
Depth Start (mKB) 2,865.00	Depth End (mKB) 2,956.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Ian O'leary	709 725 4365
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
152.0	279.0		
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
152.0	279.0		
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 104	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 103	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
POLY PAC UL	134.93	2.0
BARITE-MI	22.70	42.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	USING STEAM
00:00	Safety Meeting	TONG OPERATIONS

Wellbores	
Wellbore Name	KO.MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/21/2010
Report #: 86.0, DFS: 73.63
Depth Progress: 91.00

Well Name: NALCOR ET.AL FINNEGAN #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	2,865.00	2,956.00	101.00	13.25	8.3	1.850	18	102	19,500			0.0



Daily Drilling

Report for: 11/22/2010
 Report #: 87.0, DFS: 74.63
 Depth Progress: 35.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather BLIZZARD	Temperature (°C) -5	Road Condition POOR	Hole Condition GOOD
Operations at Report Time DRILLING		Operations Next Report Period DRILL AHEAD	

Operations Summary
 Daily Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -25 - 137 kpa.
 DRILLING AHEAD FROM 2956-2989
 CIRC BOTTOMS UP
 POH FOR BIT
 GRADED 3-3-CC-A-X-1-CD-PR
 RUN IN WITH NEW SMITH 816 AND A NEW DOG SUB
 DRILLING AHEAD

FUEL RIG 23584 L, BOILER 532 L
 BRANDT LIGHT PLANT 457 L

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 FROM 2956m TO 2963m
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS/CHECK ALL OILS/FUNCTION ANNULAR 36 SEC TO CLOSE
02:45	06:45	4.00	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE 2963m TO 2975m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	11:45	4.75	11.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2975m TO 2987M
11:45	12:00	0.25	12.00	25		CONNECTIONS AND DOWNLINK VERTATRAC(ACCUMULATED)
12:00	13:15	1.25	13.25	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2987M TO 2989M
13:15	14:00	0.75	14.00	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
14:00	18:45	4.75	18.75	6	TRIPS	TRIP OUT OF HOLE FROM 2989M TO 1483M
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:30	2.50	21.50	6	TRIPS	TRIP OUT OF HOLE FROM 1483M TO 0 M WITH F/C @ 1483M/354M/OUT OF HOLE/FUNCTION BLIND RAMS OUT OF HOLE/MEAS 20.22M3/CALC 16.97M3/DIFF 3.25M3
21:30	23:00	1.50	23.00	25		BREAK DOD SUB AND BIT/PICK UP NEW BIT DRESS AND MAKE UP NEW BIT/CHANGE OUT MAKE UP TONG TORQUE GAGE
23:00	23:30	0.50	23.50	20	DIR. WORK	BREAK FILTER SUB AND CHECK FILTER
23:30	00:00	0.50	24.00	6	TRIPS	TRIP IN HOLE TO 235m

2,989.00mKB, 11/22/2010 13:30

Type KLAS SHIELD	Time 13:30	Depth (mKB) 2,989.00	Density (kg/m³) 1210.0	Funnel Viscosity (s/L) 66	PV Override (cp) 24.0	YP Override (Pa) 9.000
Gel 10 sec (Pa) 5.000	Gel 10 min (Pa) 16.000	Filtrate (mL/30min) 6.4	Filter Cake (mm) 1.0	pH 10.5	Sand (%) 0.3	Solids (%) 10.0
MBT (kg/m³) 35	Alkalinity (mL/mL)	Chlorides (mg/L) 3,200.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.700	Pm (mL/mL)	Gel 30 min (Pa) 19.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)	166.30	

AFE Number	Total AFE Amount
Daily Cost Total 135,104.66	Cum Cost To Date 7,298,647.52
Daily Mud Cost 3,293.66	Mud Additive Cost To Date 386,343.05
Depth Start (mKB) 2,956.00	Depth End (mKB) 2,989.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 104	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 104	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
Defoam X	390.26	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
BARITE-MI	22.70	42.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	TRIPPING
00:00	Safety Meeting	TRIPPING IN HOLE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/22/2010
 Report #: 87.0, DFS: 74.63
 Depth Progress: 35.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #23, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
21	216.0mm, M713-A3D, 225678	0.22	-----	419	8.6

Nozzles (mm)	String Length (m)	OD (mm)
8.7/8.7/8.7/8.7	2,974.42	216.0

String Components
 REED M713-A3D, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles

Comment
 7*8.7

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 Tg
Original Hole	2,956.00	2,989.00	134.00	14.50	26.4		19	102	19,500			0.0
Original Hole	2,987.00	2,989.00	136.00	15.75	1.6		19	102	19,500			



Daily Drilling

Report for: 11/23/2010
 Report #: 88.0, DFS: 75.63
 Depth Progress: 56.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather FREEZING RAIN	Temperature (°C) -4	Road Condition ICY	Hole Condition TIGHT AT 3015-3045
Operations at Report Time DRILLING		Operations Next Report Period DRILL AHEAD	

Operations Summary
 Daily Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL, CONTINUOUS RECORDED READINGS -25 - 137 kpa.

RAN IN WITH NEW SMITH 816 AND A NEW DOG SUB
 DRILLING AHEAD FROM 2989-3045

NOTICED SMALL AMOUNT OF FLAKINGS OR THIN SLOUGHINGS AT 3030+ FOR MOST OF THE NIGHT
 WORK TIGHT HOLE ON CONNECTION 3045-3015

FUEL RIG 18933 L, BOILER 3756 L
 BRANDT LIGHT PLANT 178 L

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:00	6.00	6.00	6	TRIPS	CONTINUE TRIP IN HOLE FROM 205m TO 396m F/C @ 396m TEST VERTITRAK/CONT IN HOLE TO 2014m F/C AND TEST VERTITRAK/CONT IN HOLE 2947 WASH LAST 3 SINGLES TO BOTTOM
06:00	06:30	0.50	6.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2989m TO 2989.5m<PATTERN BIT>
06:30	06:45	0.25	6.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
06:45	11:30	4.75	11.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 2989.5m TO 3004m
11:30	12:00	0.50	12.00	25		CONNECTIONS AND DOWNLINK VERTATRAK(ACCUMULATED) FLOW CHECK
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE GREASED WASH PIPE,ALL MOVING PARTS,CHECKED ALL OILS,FUNCTIONED MOTORS KILL,CHECKED BOLTS AND GREASED DRIVE SHAFTS ON DRAWWORKS AND MUD PUMPS FUNCTIONED ANNULAR 36secs TO CLOSE
12:15	18:45	6.50	18.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3004M TO 3027m
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	22:30	3.50	22.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3027m TO 3045m
22:30	23:30	1.00	23.50	25		DOWNLINKING VERTITRAK AND CONNECTIONS ACCUM
23:30	00:00	0.50	24.00	5	COND MUD & CIRC	CIRCULATE AND WORK TIGHT HOLE FROM 3015m TO 3045m MAX OVER PULL 35 DAN

3,013.00mKB, 11/23/2010 14:00

Type KLA SHIELD	Time 14:00	Depth (mKB) 3,013.00	Density (kg/m³) 1215.0	Funnel Viscosity (s/L) 63	PV Override (cp) 23.0	YP Override (Pa) 8,000
Gel 10 sec (Pa) 5,000	Gel 10 min (Pa) 16,000	Filtrate (mL/30min) 6.5	Filter Cake (mm) 1.0	pH 10.5	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m³) 35	Alkalinity (mL/mL)	Chlorides (mg/L) 3,250.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.700	Pm (mL/mL)	Gel 30 min (Pa) 19,000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³) 172.30		

AFE Number		Total AFE Amount	
Daily Cost Total 53,200.78		Cum Cost To Date 7,351,848.30	
Daily Mud Cost 2,148.18		Mud Additive Cost To Date 388,491.23	
Depth Start (mKB) 2,989.00		Depth End (mKB) 3,045.00	
Target Formation Aguathuna		Target Depth (mKB) 3,250.00	
Last Casing String Intermediate, 2,276.00mKB			
Daily Contacts			
Job Contact		Mobile	
Bill Williams		709 765 1074	
Ian O'leary		709 725 4365	
Tim Kennedy		780 913 1869	
Randy Kavanagh		709 363 7261	
Well Site Office		709 636 4147	
STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.		Rig Number 11	
Rig Supervisor Martin Gould		Phone Mobile 709 765 0635	
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 6	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)
Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
ENGINEERING / EQUIPMENT	1,950.00	1.0	
DUO VIS	99.09	2.0	
Safety Checks			
Time	Type	Description	
12:00	Safety Meeting	EMERGENCY RESPONSE PROCEDURES	
00:00	Safety Meeting	MOUSEHOLE CONNECTIONS	
Wellbores			
Wellbore Name	KO MD (mKB)		
Original Hole			



Daily Drilling

Report for: 11/23/2010
 Report #: 88.0, DFS: 75.63
 Depth Progress: 56.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #24, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
22	216.0mm, MSI816WEBPX, JX0276	0.29	1-1-BT-A-X-1.00-CC-DTF	284	5.4

Nozzles (mm)	String Length (m)	OD (mm)
9.5/9.5/9.5/9.5	3,125.22	216.0

String Components
 SMITH MSI816WEBPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 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	2,989.00	3,045.00	56.00	10.00	5.6		18	102	19,400			



Daily Drilling

Report for: 11/24/2010
 Report #: 89.0, DFS: 76.63
 Depth Progress: 68.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR AND CRISPY	Temperature (°C) 2	Road Condition FAIR	Hole Condition A LITTLE TIGHT ON CONNECTIONS

Operations at Report Time DRILLING	Operations Next Report Period DRILLING AHEAD
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Operations Summary
 Daily Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL
 FINISH WORKING TIGHT HOLE 3045-3015
 DRILLING AHEAD FROM 3045-3113 FOR 68 METERS
 FORMATION IS RATTY AND THE MOTOR IS STALLING OUT WITH THE CHANGES

FUEL RIG 22141 L, BOILER 10706 L
 BRANDT LIGHT PLANT 510 L

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	5	COND MUD & CIRC	CONTINUE TO CIRCULATE AND WORK TIGHT HOLE FROM 3015m TO 3045m MAX OVERPULL 35 DAN
01:15	05:30	4.25	5.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3045m TO 3059m
05:30	05:45	0.25	5.75	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
05:45	06:45	1.00	6.75	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3059m TO 3062m
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	11:30	4.50	11.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3062m TO 3082m
11:30	11:45	0.25	11.75	25		ACCUMULATED CONNECTION TIME AND DOWNLINK TRUTRAK
11:45	12:00	0.25	12.00	20	DIR. WORK	DIRECTIONAL SURVEYS
12:00	18:30	6.50	18.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3082m - 3099m
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	19:00	0.25	19.00	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3099m TO 3100m
19:00	19:15	0.25	19.25	7	RIG SERVICE	RIG SERVICE GREASED WASHPIPE,DRAWWORKS,CHECKED ALL OILS FUNCTIONED CROWN SAVER
19:15	22:30	3.25	22.50	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3100M
22:30	00:00	1.50	24.00	25		CYCLE VERTATRAK,CONNECTIONS,PICKING UP OFF BOTTOM WHEN PRESSURING UP

3,087.00mKB, 11/24/2010 14:00						
Type KLA SHIELD	Time 14:00	Depth (mKB) 3,087.00	Density (kg/m³) 1210.0	Funnel Viscosity (s/L) 63	PV Override (cp) 24.0	YP Override (Pa) 9.000
Gel 10 sec (Pa) 6.000	Gel 10 min (Pa) 16.000	Filtrate (mL/30min) 6.5	Filter Cake (mm) 1.0	pH 10.0	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m³) 35	Alkalinity (mL/mL)	Chlorides (mg/L) 3,250.000	Calcium (mg/L) 80.000	Pf (mL/mL) 1.600	Pm (mL/mL)	Gel 30 min (Pa) 20.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)	168.90	

AFE Number	Total AFE Amount
Daily Cost Total 72,248.71	Cum Cost To Date 7,424,097.01
Daily Mud Cost 3,255.71	Mud Additive Cost To Date 391,746.94
Depth Start (mKB) 3,045.00	Depth End (mKB) 3,113.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00

Last Casing String
 Intermediate, 2,276.00mKB

Daily Contacts	
Job Contact	Mobile
Ian Oleary	709 725 4365
Tim Kennedy	780 913 1869
Bill Williams	709 765 1074
Well Site Office	709 636 4147
Randy Kavanagh	709 363 7261

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
152.0	279.0		
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
165.0	279.0	0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 110	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 110	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
152.0	279.0		
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
165.0	279.0	0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 107	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
POLY PAC UL	134.93	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
DEFOAM X	390.26	3.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	RIG SERVICE
00:00	Safety Meeting	FUNCTIONING CROWN SAVER

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/24/2010
 Report #: 89.0, DFS: 76.63
 Depth Progress: 68.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #24, Drilling Assembly					
Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
22	216.0mm, MSI816WEBPX, JX0276	0.29	1-1-BT-A-X-1.00-CC-DTF	284	5.4
Nozzles (mm)		String Length (m)		OD (mm)	
9.5/9.5/9.5/9.5		3,125.22		216.0	
String Components					
SMITH MSI816WEBPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 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	3,045.00	3,113.00	124.00	19.75	7.0		18	102	19,300			0.0



Daily Drilling

Report for: 11/25/2010
 Report #: 90.0, DFS: 77.63
 Depth Progress: 17.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) 3	Road Condition ROUGH	Hole Condition LOT OF SLOUGHING
Operations at Report Time PULL OUT OF HOLE		Operations Next Report Period CHANGE BHA AND RIH TO REAM	

Operations Summary
Daily Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL
 DRILLING AHEAD FROM 3113-3130 FOR 17 METERS
 FORMATION IS RATTY AND THE MOTOR IS STALLING OUT WITH THE CHANGES
 BAKERS MWD FAILED TO PULSE AT 0215H HRS & 3117 METERS WORK PIPE, CHANGE FLOW AND DRILL
 AHEAD IN ROTARY MODE TRYING TO REGAIN PULSES
 TIGHT HOLE 3130 TO 2796 (PUMP OUT)
 PUMP HIGH VIS SWEEPS. LOTS OF FLAKINGS OR THIN SLOUGHINGS COMING OVER THE SHAKER
 HOLE CLEANED UP AND WE WERE ABLE TO PULL FROM 2796 WITH OUT THE PUMPS AND THE KELLY

FUEL RIG 18773L, BOILER 9328L
 BRANDT LIGHT PLANT L 467

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 216mm HOLE FROM 3113M TO 3124M
04:30	06:45	2.25	6.75	25		CONNECTIONS,DOWNLINK TRUTRAK,WORK TIGHT HOLE(ACCUMULATED)
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	DRILL 216mm HOLE FROM 3124M TO 3127M
08:00	08:15	0.25	8.25	7	RIG SERVICE	RIG SERVICE/GREASED ALL MOVING PARTS CHECK ALL OILS/FUNCTION UPPER AND LOWER PIPE RAMS 6 SEC TO CLOSE
08:15	09:00	0.75	9.00	2	DRILL ACTUAL	DRILL 216mm HOLE FROM 3127m TO 3130m
09:00	12:00	3.00	12.00	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP/PUMP SWEEP CONTINUE TO CIRCULATE SWEEP TO SURFACE / LARGE CUTTINGS IN RETURNS / CONTINUE TO CIRCULATE HOLE CLEAN
12:00	14:15	2.25	14.25	5	COND MUD & CIRC	CONTINUE TO CIRCULATE HOLE CLEAN / PUMP SECOND SWEEP / LARGE CUTTINGS IN RETURNS
14:15	17:45	3.50	17.75	6	TRIPS	WIPER TRIP TO 2796m /PUMPING OUT 25 SINGLES/MAX OVER PULL @ 29 DAN FROM 3061m TO 3070 WORKING TIGHT HOLE /ATTEMPTED TO PULL WITHOUT PUMP ON EACH CONNECTION COULD NOT PULL WITHOUT PUMP/HOLE PACKING OFF AND PRESSURING UP.
17:45	18:45	1.00	18.75	5	COND MUD & CIRC	CIRCULATE AND PUMP SWEEP/CIRCULATE SWEEP TO SURFACE / FEWER LARGE CUTTINGS IN RETURNS
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	20:00	1.00	20.00	6	TRIPS	TRIP OUT OF HOLE FROM 2796M TO 2654M
20:00	20:30	0.50	20.50	5	COND MUD & CIRC	CIRCULATE AND MIX PILL
20:30	00:00	3.50	24.00	6	TRIPS	TRIP OUT OF HOLE FROM 2654M TO 1566M

3,130.00mKB, 11/25/2010 14:00						
Type KLA SHIELD	Time 14:00	Depth (mKB) 3,130.00	Density (kg/m³) 1210.0	Funnel Viscosity (s/L) 61	PV Override (cp) 24.0	YP Override (Pa) 9.000
Gel 10 sec (Pa) 5.000	Gel 10 min (Pa) 15.000	Filtrate (mL/30min) 6.6	Filter Cake (mm) 1.0	pH 10.0	Sand (%) 0.3	Solids (%) 9.5
MBT (kg/m³) 25	Alkalinity (mL/mL)	Chlorides (mg/L) 3,300.000	Calcium (mg/L) 40.000	Pf (mL/mL) 1.500	Pm (mL/mL)	Gel 30 min (Pa) 18.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)	174.60	

AFE Number	Total AFE Amount
Daily Cost Total 52,126.85	Cum Cost To Date 7,476,223.86
Daily Mud Cost 3,957.77	Mud Additive Cost To Date 395,704.71
Depth Start (mKB) 3,113.00	Depth End (mKB) 3,130.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Ian O'leary	709 725 4365
Bill Williams	709 765 1074

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 104	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 102	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
Defoam X	390.26	3.0
DUO VIS	99.09	3.0
POLY PAC UL	134.93	4.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	LAYING DOWN SINGLES
00:00	Safety Meeting	TRIPPING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/25/2010
 Report #: 90.0, DFS: 77.63
 Depth Progress: 17.00

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #24, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm ²)	BHA ROP...
22	216.0mm, MSI816WEBPX, JX0276	0.29	1-1-BT-A-X-1.00-CC-DTF	284	5.4

Nozzles (mm)	String Length (m)	OD (mm)
9.5/9.5/9.5/9.5	3,125.22	216.0

String Components
 SMITH MSI816WEBPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 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) (m ³ /min)	WOB (daN)	RPM (rpm)	SPP (kPa)	Rot HL (daN)	PU HL (daN)	Drill Tq
Original Hole	3,113.00	3,130.00	141.00	26.00	2.7		18	102	18,300			



Daily Drilling

Report for: 11/26/2010

Report #: 91.0, DFS: 78.63

Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather RAIN	Temperature (°C) 2	Road Condition ROUGH	Hole Condition LOT OF SLOUGHING
Operations at Report Time POH TO LOG		Operations Next Report Period WIRELINE OPERATION	
Operations Summary Daily Notes: NO ACCIDENTS OR INCIDENTS NO MOOSE, BEARS OR CARIBOU SIGHTED THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK. PASON SENSOR GAUGE ON CASING BOWL CONTINUE TO POOH FROM 1566M AND LAY DOWN VERTITRAK AND DIRECTIONAL TOOLS. PICK UP NEW BIT AND RUN IN HOLE WITH ROTATING ASSEMBLY, FILLING PIPE EVERY 1000M. SLIP AND CUT 21M OF DRILL LINE, RIG SERVICE TRIP IN HOLE TO 2809M CIRCULATE AND CONDITION MUD RAISE MUD WEIGHT TO 1250 KG/M3 AND VISCOSITY TO 88. CONTINUE TO TRIP IN HOLE CIRCULATING BOTTOMS UP EVERY 100 M TO 3030M. REAM AND CLEAN HOLE FROM 3030 M TO 3042M. HOLE IS TIGHT, SLOUGHING, HIGH TABLE TORQUE 17,700+ MIX AND PUMP SWEEPS TO CLEAN HOLE. FUEL RIG 22751 L, BOILER 12834 L BRANDT LIGHT PLANT L 467			

Time Log						
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	03:45	3.75	3.75	6	TRIPS	TRIP OUT OF HOLE FROM 1566M TO 30M WITH FLOW CHECKS @ 1566M,407M AND OUT OFF HOLETRIP SHEET MEAS. 18.04, CALC.15.85,DIFF. 2.19
03:45	05:30	1.75	5.50	20	DIR. WORK	LAY OUT DIRECTIONAL TOOLS
05:30	05:45	0.25	5.75	7	RIG SERVICE	RIG SERVICE GREASED DRAWWORKS CHECKED OILS / FUNCTION BLIND RAMS WHILE OUT OF HOLE 6 SEC TO CLOSE
05:45	06:00	0.25	6.00	25		CLEAN FLOOR,GET READY TO TRIP IN HOLE
06:00	06:45	0.75	6.75	6	TRIPS	MAKE UP BIT
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	07:45	0.75	7.75	6	TRIPS	TRIP IN HOLE / RUN IN BHA TO 365m
07:45	09:15	1.50	9.25	9	CUT OFF DRILLING LINE	SLIP/CUT 21m OF DRILLING LINE/CHANGE OIL ON FLOORMOTOR
09:15	12:00	2.75	12.00	6	TRIPS	CONTINUE TO TRIP IN HOLE FROM 365m TO 2313m WITH F/C AND FILLING PIPE @ 1294m/2313m
12:00	13:00	1.00	13.00	6	TRIPS	CONTINUE TRIP IN HOLE FROM 2313m TO 2809m WITH F/C AND FILLING PIPE @ 2809m/PICKING UP SEVER SINGLES
13:00	16:30	3.50	16.50	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
16:30	17:00	0.50	17.00	6	TRIPS	CONTINUE TRIP IN HOLE PICKNG UP SINGLES FROM 2809m TO 2919m
17:00	17:45	0.75	17.75	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
17:45	18:30	0.75	18.50	6	TRIPS	CONTINUE TRIP IN HOLE PICKING UP SINGLES FROM 2919m TO 3030m
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	20:30	1.75	20.50	3	REAMING	REAM & CLEAN FROM 3030m TO 3042
20:30	00:00	3.50	24.00	5	COND MUD & CIRC	CIRCULATE AND PUMP SWEEPS,CONDITION MUD CIRCULATED BOTTOMS UP SAW VERY LITTLE CUTTINGS, SINGLE SWEEP#1 VERY LITTLE CUTTINGS,TANDEM SWEEP#2 CUTTINGSREDUCED BY HALF,TANDEM SWEEP #3 SOME CUTTINGS (SWEEPS@4m3)

AFE Number	Total AFE Amount
Daily Cost Total 83,417.00	Cum Cost To Date 7,559,640.86
Daily Mud Cost 8,649.10	Mud Additive Cost To Date 404,353.81
Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Tim Kennedy	780 913 1869
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
DEFOAM X	390.26	2.0
DUO VIS	99.09	2.0
BARITE-MI	22.70	252.0

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

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/26/2010

Report #: 91.0, DFS: 78.63

Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

2,276.00mKB, 11/26/2010 15:00

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	15:00	2,276.00	1235.0	73	25.0	11,500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
6.000	15.000		1.0	10.0	0.3	10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
			40.000	1.400		18,000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		4.00	36.50	174.00		

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
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Nozzles (mm)	String Length (m)	OD (mm)
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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
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Daily Drilling

Report for: 11/27/2010
 Report #: 92.0, DFS: 79.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) -2	Road Condition ROUGH	Hole Condition GOOD

Operations at Report Time WIRE LINE OPERATION	Operations Next Report Period CONTINUE TO WIRE LINE
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Operations Summary
 Daily Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL
 MIX AND PUMP SWEEPS TO CLEAN HOLE.
 WIPER TRIP BACK TO SHOE
 TRIP IN HOLE TO 3030 M AND PUMP TANDEM SWEEP
 CIRC HOLE CLEAN
 POOH TO RUN WIRE LINE
 RIG UP AND RUN WIRE LINE

FUEL RIG 20904 L, BOILER 12521 L
 BRANDT LIGHT PLANT 297 L

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	00:45	0.75	0.75	5	COND MUD & CIRC	CONDITION MUD AND CLEAN HOLE, PUMP TANDEM SWEEP#4,HOLE CLEAN
00:45	01:00	0.25	1.00	21	SAFETY MEETING	DRILLS/BOP / WELL SECURE 75 SEC
01:00	02:30	1.50	2.50	5	COND MUD & CIRC	CONDITION MUD AND CLEAN HOLE, CONTINUE TO PUMP SWEEP #4
02:30	02:45	0.25	2.75	7	RIG SERVICE	RIG SERVICE GREASED WASHPIPE,DRAWWORKS CHECKED ALL OILS, FUNCTIONED ANNULAR 36secs TO CLOSE
02:45	04:30	1.75	4.50	6	TRIPS	TRIPS FROM 3030M TO 2251M WITH FLOW CHECKS AT 3030M,2874M,2251M
04:30	05:30	1.00	5.50	6	TRIPS	TRIP IN HOLE FROM 2251M TO 3030M
05:30	06:45	1.25	6.75	5	COND MUD & CIRC	CONDITION MUD AND CIRCULATE,PUMP TANDEM SWEEP#5
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CRWE HANDOVER
07:00	07:30	0.50	7.50	5	COND MUD & CIRC	CONTINUE TO CIRCULATE HOLE CLEAN
07:30	12:00	4.50	12.00	6	TRIPS	TRIP OUT OF HOLE FROM 3130m TO 1019m WITH F/C @ 3011m/2874m/2185m/1497m
12:00	14:15	2.25	14.25	6	TRIPS	CONTINUE TRIP OUT OF HOLE FROM 1019m WITH F/C @ 341m/OUT OF HOLE/MEAS 19.73M3/CALC 16.57M3/DIFF3.16M3/PIPE STRAP WAS 34cm DIFFERANCE/FUNCTION BLIND RAMS 6 SEC TO CLOSE
14:15	14:30	0.25	14.50	21	SAFETY MEETING	SAFETY MEETING WITH LOGGERS
14:30	18:30	4.00	18.50	11	WIRELINE LOGS	RIG INTO AND RUN WIRELINE LOGS-RUN # 1 GR-XMAC-ORIT-GCAL
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	19:45	1.00	19.75	11	WIRELINE LOGS	CONTINUE WIRELINE LOGS-RUN # 1 GR-XMAC-ORIT-GCAL (
19:45	20:00	0.25	20.00	21	SAFETY MEETING	SAFETY MEETING WITH LOGGING CREW
20:00	20:15	0.25	20.25	11	WIRELINE LOGS	CONTINUE WIRELINE LOGS#1 1GR-XMAC-ORIT-GCAL
20:15	22:00	1.75	22.00	11	WIRELINE LOGS	RIG OUT LOGGING RUN #1,RIG UP LOGGING RUN #2
22:00	00:00	2.00	24.00	11	WIRELINE LOGS	RUN WIRELINE LOG#2GR-CAL-CN-ZZDL-HDIC

AFE Number	Total AFE Amount
Daily Cost Total 44,469.00	Cum Cost To Date 7,604,109.86
Daily Mud Cost 6,434.53	Mud Additive Cost To Date 410,788.34
Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian Oleary	709 725 4365
Randy Kavanagh	709 363 7261
Tim Kennedy	780 913 1869

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 105	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
DUO VIS	99.09	7.0
BARITE-MI	22.70	167.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	RIGGING IN LOGGERS
00:00	Safety Meeting	LOCK OUT TAG OUT

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/28/2010
 Report #: 93.0, DFS: 80.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather CLEAR	Temperature (°C) -2	Road Condition ROUGH	Hole Condition GOOD

Operations at Report Time WIRELINE OPERATION	Operations Next Report Period WIRELINE OPERATION
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Operations Summary
 Daily Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL
 CONTINUE WITH WIRELINE OPERATION

FUEL RIG 20201 L, BOILER 12521 L
 BRANDT LIGHT PLANT 297 L

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	02:45	2.75	2.75	11	WIRELINE LOGS	CONTINUE TO LOG RUN #2 GR-CALCN-ZZDL-HDIC
02:45	04:30	1.75	4.50	11	WIRELINE LOGS	RIG OUT LOG RUN #2 RIG UP LOG RUN#3
04:30	04:45	0.25	4.75	7	RIG SERVICE	RIG SERVICE GREASED DRAWWORKS
04:45	06:45	2.00	6.75	11	WIRELINE LOGS	RUN LOG #3 GR-DLL
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	08:30	1.50	8.50	11	WIRELINE LOGS	CONTINUE TO RUN LOG#3 GR-DLL
08:30	12:00	3.50	12.00	11	WIRELINE LOGS	RIG OUT LOG # 3/RIG IN LOG AND RUN # 4 GR-RCOR
12:00	15:30	3.50	15.50	11	WIRELINE LOGS	CONTINUE LOG # 4 GR-RCOR
15:30	15:45	0.25	15.75	7	RIG SERVICE	RIG SERVICE/GRASED DRAWWORKS
15:45	18:30	2.75	18.50	11	WIRELINE LOGS	CONTINUE LOG # 4 GR-RCOR
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
18:45	21:00	2.25	21.00	11	WIRELINE LOGS	CONTINUE LOG # 4 GR-RCOR
21:00	22:45	1.75	22.75	11	WIRELINE LOGS	RIG OUT LOG#4,RIG UP LOG#5
22:45	00:00	1.25	24.00	11	WIRELINE LOGS	RUN LOG #5 RS-VSP

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	12:30	3,130.00	1250.0	115	25.0	17,500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
11.000	14.000	4.9	1.0	10.0	0.3	10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
30	2,800.000	40.000	1.300			20,000

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					

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
Daily Cost Total 36,611.00	Cum Cost To Date 7,640,720.86
Daily Mud Cost	Mud Additive Cost To Date 410,788.34
Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	OPEN HOLE LOGS
00:00	Safety Meeting	LOGGING

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/29/2010

Report #: 94.0, DFS: 81.63

Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition ROUGH	Hole Condition GOOD

Operations at Report Time
RUNNING IN HOLE WITH CEMENT STINGER

Operations Next Report Period
WAIT ON CEMENT

Operations Summary
 Daily Notes:
 NO ACCIDENTS OR INCIDENTS
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL
 COMPLETE WITH WIRELINE OPERATION AND RIG DOWN SAME
 CLEAN MUD TANKS
 LAY DOWN COLLARS AND HWDP

FUEL RIG 18252 L, BOILER 10956 L
 BRANDT LIGHT PLANT 300 L

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:30	6.50	6.50	11	WIRELINE LOGS	CONTINUE TO RUN LOG #5 VSP
06:30	06:45	0.25	6.75	7	RIG SERVICE	CHECKED DRIVESHAFTS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	08:00	1.00	8.00	11	WIRELINE LOGS	RIG OUT LOG#5/RIG UP LOG #6 GR-SBT TO RUN
08:00	12:00	4.00	12.00	11	WIRELINE LOGS	RUN LOG # 6 GR-SBT
12:00	15:00	3.00	15.00	11	WIRELINE LOGS	CONTINUE RUN # 6 GR-SBT/BREAK DOWN TOOLS AND RIG OUT LOGGERS
15:00	15:15	0.25	15.25	7	RIG SERVICE	RIG SERVICE/GREASED BLOCKS
15:15	18:45	3.50	18.75	25	OTHER	CLEAN MUD TANKS
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	21:15	2.25	21.25	25	OTHER	CLEAN MUD TANKS
21:15	22:30	1.25	22.50	6	TRIPS	RUN COLLARS AND HWDP IN HOLE
22:30	00:00	1.50	24.00	6	TRIPS	LAY OUT HWDP AND DRILL COLLARS

3,130.00mKB, 11/29/2010 12:30

Type KLA SHIELD	Time 12:30	Depth (mKB) 3,130.00	Density (kg/m³) 1250.0	Funnel Viscosity (s/L) 115	PV Override (cp) 25.0	YP Override (Pa) 17.500
Gel 10 sec (Pa) 11.000	Gel 10 min (Pa) 14.000	Filtrate (mL/30min) 4.9	Filter Cake (mm) 1.0	pH 10.0	Sand (%) 0.3	Solids (%) 10.0
MBT (kg/m³) 30	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L) 40.000	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa) 20.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³) 60.20	Active Mud Volume (m³) 159.00		

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
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Nozzles (mm)	String Length (m)	OD (mm)
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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 Tg

AFE Number	Total AFE Amount
Daily Cost Total 309,667.58	Cum Cost To Date 7,950,388.44
Daily Mud Cost	Mud Additive Cost To Date 410,788.34
Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)

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

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017

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

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	HOUSE KEEPING
00:00	Safety Meeting	LAYING OUT BHA

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/30/2010
 Report #: 95.0, DFS: 82.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C) -2	Road Condition ROUGH	Hole Condition GOOD

Operations at Report Time
 POOH TO 2350M

Operations Next Report Period
 POOH AND LAY DOWN CEMENT STINGER

Operations Summary

Daily Notes:

1 INCIDENT REPORTED.
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING BOWL.
 LAY DOWN COLLARS AND HWDP
 PICK UP 2 7/8 TUBING
 TRIP IN HOLE TO 3020M
 CIRCULATE AND CONDITION MUD PRIOR TO CEMENTING PLUG.
 SET CEMENT PLUG FROM 3020M TO 2890M.
 PUMPED 5.3 M3, 30 % EXCESS, 7 TON, 1901 kg/m3, CLASS G. .2 % R3, .5% A11, .5 % CD32, .6% FL63, 2% MICROSIL 12P
 POOH TO 2840 AND CIRCULATE.
 WAIT ON CEMENT FROM 1700 hrs TO 0600 hrs DEC 01.
 FELT CEMENT W/ 8 da @ 0600 hrs DEC 01

FUEL RIG 16177 L, BOILER 9579 L
 BRANDT LIGHT PLANT 500 L

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:30	1.50	1.50	6	TRIPS	LAY OUT 6.5in. DRILL COLLARS FLOW CHECKS@ 310 M OUT OFF HOLE TRIP SHEET CALC.5.44 MEAS. 5.02 DIFF. 0.42
01:30	02:45	1.25	2.75	25		RIG UP FLOOR TO PICK UP TUBING
02:45	04:30	1.75	4.50	6	TRIPS	PICK UP 2 7/8 TUBING
04:30	05:00	0.50	5.00	25		RIG OUT 2 7/8 TUBING ELEVATORS AND TONGS
05:00	06:45	1.75	6.75	6	TRIPS	TRIP IN HOLE FROM 236M TO 726M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	10:15	3.25	10.25	6	TRIPS	TRIP IN HOLE FROM 726M TO 1883M FLOW CHECK AND FILL PIPE CONTINUE IN HOLE TO 3020M PICKING UP 8 SINGLES
10:15	12:00	1.75	12.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE
12:00	13:00	1.00	13.00	5	COND MUD & CIRC	CONTINUE TO CONDITION MUD & CIRCULATE
13:00	14:00	1.00	14.00	12	RUN CASING AND CEMENT	RIG INTO AND ATTEMPTED TO CEMENT PLUG # 1 CEMENT UNIT PLUGGED OFF
14:00	15:45	1.75	15.75	5	COND MUD & CIRC	CIRCULATE 0.5M3 OF CEMENT OUT OF HOLE
15:45	16:45	1.00	16.75	12	RUN CASING AND CEMENT	CEMENT PLUG # 1 FROM 3020M TO 2920M
16:45	17:15	0.50	17.25	6	TRIPS	TRIP 7 STANDS OUT OF CEMENT PLUG TO 2844m
17:15	18:45	1.50	18.75	13	WAIT ON CEMENT	CIRCULATE ABOVE CEMENT PLUG WAITING ON CEMENT
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
19:00	20:15	1.25	20.25	13	WAIT ON CEMENT	CONTINUE TO CIRCULATE AND WAIT ON CEMENT
20:15	20:30	0.25	20.50	7	RIG SERVICE	RIG SERVICE
20:30	00:00	3.50	24.00	13	WAIT ON CEMENT	WAIT ON CEMENT

AFE Number	Total AFE Amount
Daily Cost Total 34,861.00	Cum Cost To Date 7,985,249.44
Daily Mud Cost 2,273.86	Mud Additive Cost To Date 413,062.20
Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 85	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed
CITRIC ACID	158.68	1.0
ENGINEERING / EQUIPMENT	1,950.00	1.0
SODIUM BI CARB	27.53	6.0

Safety Checks

Time	Type	Description
12:00	Safety Meeting	CEMENTING
00:00	Safety Meeting	STEAM USE

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 11/30/2010
 Report #: 95.0, DFS: 82.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

3,130.00mKB, 11/30/2010 08:30												
Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)						
KLA SHIELD	08:30	3,130.00	1250.0	115	25.0	17.500						
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)						
11.000	14.000	4.9	1.0	10.0	0.3	10.0						
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)						
30			40.000	1.300		20.000						
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)								
		3.00	65.00									
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: 12/1/2010
 Report #: 96.0, DFS: 83.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather OVERCAST	Temperature (°C) -1	Road Condition ROUGH	Hole Condition cased/
Operations at Report Time POOH TO RUN WIRE LINE		Operations Next Report Period LAY DOWN DRILL PIPE	
Operations Summary NO ACCIDENTS OR INCIDENTS REPORTED NO MOOSE, BEARS OR CARIBOU SIGHTED THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK. PASON SENSOR GAUGE ON CASING BOWL CONTINUED TO WAIT ON CEMENT TO 0600 hrs. FELT PLUG WITH 9 da WEIGHT. PULLED OUT OF HOLE TO 2350 m. CIRCULATED AND CONDITIONED MUD. PUMP CEMENT PLUG # 2. @ 2350 m. PUMP 4.5 m3 H2O SPACER. 7.5 TON 5.7 m3 CEMENT SLURRY, CLASS G, YIELD 0.757, 1901 kg/m3, (0.60% FL-63, 2.0% MICROSIL 12P, 0.50% CD-32, 0.5 % A-11, 0.2% R-3.) 1.0 m3 H2O AND DISPLACED WITH 19 m3 DRILLING FLUID @ 1120 hrs. PULLED TO 2160 m AND CIRCULATED BOTTOMS UP. PULLED OUT OF HOLE,LAYED OUT 42 JOINTS DRILL PIPE. LAY DOWN 25 JOINTS OF 2 7/8 TUBING , RIG DOWN HANDLING EQUIPMENT MADE UP BIT AND RAN IN HOLE TO 1100M. FUEL RIG 14428 L, BOILER 8452 L BRANDT LIGHT PLANT 509 L			

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	05:30	5.50	5.50	13	WAIT ON CEMENT	WAIT ON CEMENT
05:30	06:15	0.75	6.25	6	TRIPS	BLOW KELLY, TAG CEMENT
06:15	06:45	0.50	6.75	6	TRIPS	TRIP OUT OF HOLE FROM 3020M TO 2829M
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	08:30	1.50	8.50	6	TRIPS	TRIP OUT OF HOLE FROM 2829m - 2350m W/ FLOW CHECK @ 2350m
08:30	09:45	1.25	9.75	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE PRIOR TO PLUG #2
09:45	10:00	0.25	10.00	15	TEST B.O.P.	ACCUMULATOR FUNCTION TEST-STARTING PRESSURE 19800kPa,TOTAL PRESSURE LOSS AFTER FOUR FUNCTIONS 9500kPa,PRESSURE REMAINING 10300kPa,TIME TO RECHARGE 2 MINUTES 03 SECONDS,PRECHARGE PRESSURE 7300kPa
10:00	10:15	0.25	10.25	21	SAFETY MEETING	SAFETY MEETING WITH BJ CEMENTERS ON PLUG # 2
10:15	11:15	1.00	11.25	12	RUN CASING AND CEMENT	CEMENT PLUGS , CEMENT PLUG #2 FROM 2350m - 2250m
11:15	12:00	0.75	12.00	6	TRIPS	TRIP OUT OF HOLE FROM 2350m - 2157m WITH FLOW CHECK @ 2157m
12:00	13:00	1.00	13.00	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE 1 COMPLETE CIRCULATION @ TOP OF PLUG #2
13:00	13:15	0.25	13.25	25		BLOW BACK KELLY
13:15	13:30	0.25	13.50	6	TRIPS	TRIP OUT OF HOLE WITH 10 MINUTE FLOW CHECKS @ 2157m
13:30	14:15	0.75	14.25	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE / MIX PILL TO PUMP INTO PIPE DUE TO U-TUBING
14:15	14:30	0.25	14.50	25		BLOW BACK KELLY
14:30	16:15	1.75	16.25	6	TRIPS	TRIP OUT OF HOLE WITH 10 MINUTE FLOW CHECK @ 1113m
16:15	17:30	1.25	17.50	6	TRIPS	LAY DOWN DRILL PIPE , LAY DOWN 42 SINGLES OF DRILL PIPE
17:30	17:45	0.25	17.75	6	TRIPS	TRIPS , RIG IN 3 TONGS TO BREAK OUT 2 7/8 TUBING SINGLES
17:45	18:30	0.75	18.50	6	TRIPS	LAY DOWN DRILL PIPE , LAY DOWN 2 7/8 TUBING SINGLES
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER MEETING

AFE Number	Total AFE Amount		
Daily Cost Total 36,127.98	Cum Cost To Date 8,021,377.42		
Daily Mud Cost 3,216.98	Mud Additive Cost To Date 416,279.18		
Depth Start (mKB) 3,130.00	Depth End (mKB) 3,130.00		
Target Formation Aguathuna	Target Depth (mKB) 3,250.00		
Last Casing String Intermediate, 2,276.00mKB			
Daily Contacts			
Job Contact	Mobile		
Well Site Office	709 636 4147		
Randy Kavanagh	709 363 7261		
Tim Kennedy	780 913 1869		
Ian O'leary	709 725 4365		
Bill Williams	709 765 1074		
STONEHAM DRILLING INC., 11			
Contractor STONEHAM DRILLING INC.	Rig Number 11		
Rig Supervisor Martin Gould	Phone Mobile 709 765 0635		
1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 85	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 85	Eff (%)
Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
ENGINEERING / EQUIPMENT	1,950.00	1.0	
CAUSTIC(HAL)		2.0	
LIGNITE	34.00	8.0	
CITRIC ACID	158.68	2.0	
SODIUM BI CARB	27.53	4.0	
BARITE-MI	22.70	25.0	
Safety Checks			
Time	Type	Description	
12:00	Safety Meeting	CEMENTING	
00:00	Safety Meeting	SLIP AND CUT	
Wellbores			
Wellbore Name	KO MD (mKB)		
Original Hole			



Daily Drilling

Report for: 12/1/2010
 Report #: 96.0, DFS: 83.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
18:45	19:30	0.75	19.50	6	TRIPS	LAY DOWN DRILL PIPE , CONTINUE TO LAY DOWN 2 7/8 TUBING SINGLES
19:30	20:30	1.00	20.50	6	TRIPS	RIG OUT AND LAY DOWN 3ft.TONGS FUNCTION BLIND RAMS OUT OFF HOLE 4secs TO CLOSE/OPEN TRIP SHEET MEAS. 11.29 CALC 9.05 DIFF. 2.24m3 ,CLEAN UP RIG FLOOR FOR TRIP IN HOLE ,FLOW CHECK
20:30	22:00	1.50	22.00	6	TRIPS	TRIP IN HOLE FROM 0M TO 1045M
22:00	22:30	0.50	22.50	25		FILL PIPE
22:30	23:30	1.00	23.50	9	CUT OFF DRILLING LINE	CUT OFF DRILL LINE
23:30	00:00	0.50	24.00	6	TRIPS	TRIP IN HOLE FROM 1045M TO 1100M

3,130.00mKB, 12/1/2010 08:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	08:30	3,130.00	1250.0	93	31.0	15.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
11.000	12.000	5.0	1.0	10.0	0.3	10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
30			80.000	1.400		22.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
			63.70			

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

Well Name: NALCOR ET.AL FINNEGAN #1

Report for: 12/2/2010
 Report #: 97.0, DFS: 84.63
 Depth Progress: 24.00

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition ROUGH	Hole Condition cased/

Operations at Report Time
CLEAN MUD TANKS

Operations Next Report Period
TEAR OUT RIG

Operations Summary
 NO ACCIDENTS OR INCIDENTS REPORTED
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING

SLIP AND CUT DRILL LINE. CONTINUED RUN IN HOLE. TAG CEMENT @ 2196 M. FELT PLUG WITH 65 da. POLISHED PLUG TO 2220 m. CONDITIONED MUD. RAISED PH TO 11.5. PULLED OUT OF HOLE. RIGGED IN BAKER ATLAS. HELD SAFETY MEETING RAN GUAGE RING/ JUNK BASKET TO 2217 m. RAN AND SET BRIDGE PLUG @ 2200 m mkb. RIGGED OUT LOGGING EQUIPMENT. HELD SAFETY MEETING. RIGGED IN BJ SERVICES AND PRESSURE TESTED BRIDGE PLUG TO 21,000 kpa 10 min - OK.
 RAN IN HOLE AND PULLED OUT LAYING OUT DRILL PIPE.

FUEL RIG 14428 L, BOILER 8452 L
 BRANDT LIGHT PLANT 509 L

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	6	TRIPS	TRIP IN HOLE FROM 1100M TO 2200
01:15	04:15	3.00	4.25	2	DRILL ACTUAL	PICK UP KELLY AND TAG CEMENT WITH 65 deacs AND DRILL OUT CEMENT FROM 2196M TO 2220M
04:15	06:30	2.25	6.50	5	COND MUD & CIRC	CIRCULATE AND CONDITION MUD AND DISPLACE
06:30	06:45	0.25	6.75	7	RIG SERVICE	RIG SERVICE GREASED DRAWWORKS, CHECKED OILS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	07:15	0.25	7.25	25		BLOW BACK KELLY
07:15	09:15	2.00	9.25	6	TRIPS	PUMP PILL AND PULL OUT OF HOLE WITH 10 MINUTE FLOW CHECKS @ 2218m , 2057m & 1092m
09:15	09:30	0.25	9.50	21	SAFETY MEETING	SAFETY MEETING WITH NALCOR REP. , STONEHAM EMPLOYEES , SWACO , BRANDT AND BJ
09:30	10:30	1.00	10.50	25		BREAK DOWN KELLY
10:30	12:00	1.50	12.00	6	TRIPS	TRIP OUT OF HOLE WITH FLOW CHECK @ 0m , TRIP VOLUMES - MEASURED 11.00m³ , CALCULATED 9.02m³ , DIFFERENCE +1.98m³
12:00	12:15	0.25	12.25	7	RIG SERVICE	RIG SERVICE WHILE OUT OF HOLE , CHECKED OIL LEVELS AND GREASED MOVING PARTS , FUNCTION TEST BLIND RAMS < 5 SECONDS TO CLOSE >
12:15	14:30	2.25	14.50	11	WIRELINE LOGS	RIG IN LOGGERS AND WIRELINE RUN #1 - GUAGE RING / JUNK BASKET
14:30	18:00	3.50	18.00	11	WIRELINE LOGS	WIRELINE RUN #2 - BRIDGE PLUG , RIG OUT WIRELINERS AND PACK AWAY TOOLS
18:00	18:30	0.50	18.50	15	TEST B.O.P.	RIG IN BJ TO PRESSURE TEST BRIDGE PLUG
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	19:00	0.25	19.00	21	SAFETY MEETING	SAFETY MEETING WITH BJ ON PRESSURE TEST BRIDGE PLUG
19:00	20:00	1.00	20.00	15	TEST B.O.P.	PRESSURE TEST BRIDGE PLUG
20:00	21:15	1.25	21.25	6	TRIPS	TRIP IN HOLE TO 830M
21:15	00:00	2.75	24.00	6	TRIPS	TRIP OUT OF HOLE FROM 830 TO 0 WITH FLOW CHECKS AT 830M 0M TRIP SHEET MEAS. 3.83m³ CALC. 3.36m³ DIFF. 0.47m³

AFE Number	Total AFE Amount
Daily Cost Total 128,851.00	Cum Cost To Date 8,150,228.42
Daily Mud Cost 2,858.00	Mud Additive Cost To Date 419,137.18
Depth Start (mKB) 2,196.00	Depth End (mKB) 2,220.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Randy Kavanagh	709 363 7261
Tim Kennedy	780 913 1869
Ian Oleary	709 725 4365
Bill Williams	709 765 1074
Well Site Office	709 636 4147

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 100	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
ENGINEERING / EQUIPMENT	1,950.00	1.0
BARITE-MI	22.70	40.0

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	WIRELINING
00:00	Safety Meeting	LAYING OUT DRILL PIPE

Wellbores	
Wellbore Name	KO.MD (mKB)
Original Hole	



Daily Drilling

Report for: 12/2/2010
 Report #: 97.0, DFS: 84.63
 Depth Progress: 24.00

Well Name: NALCOR ET.AL FINNEGAN #1

3,130.00mKB, 12/2/2010 06:30

Type	Time	Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	PV Override (cp)	YP Override (Pa)
KLA SHIELD	06:30	3,130.00	1250.0	90	32.0	15.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Sand (%)	Solids (%)
12.000	13.000	5.4	1.0	10.0	0.3	10.0
MBT (kg/m³)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (Pa)
35			80.000	1.500		24.000
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		5.00	56.40	162.00		

BHA #26, Drilling Assembly

Bit Run	Drill Bit	Length (m)	IADC Bit Dull	TFA (incl Noz) (mm²)	BHA ROP...
23RR	216.0mm, EQHD42R, 11265721	0.29	-----		8.0
Nozzles (mm)	String Length (m)	OD (mm)			
	2,209.55	165.0			
String Components					
SECURITY EQHD42R, BIT SUB, X/O, 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	2,196.00	2,220.00	24.00	3.00	8.0		4	50	5,100			4,00...



Daily Drilling

Report for: 12/3/2010
 Report #: 98.0, DFS: 85.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition ROUGH	Hole Condition cased/

Operations at Report Time
 TEAR OUT RIG

Operations Next Report Period
 TEAR OUT RIG

Operations Summary
 NO ACCIDENTS OR INCIDENTS REPORTED
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING
 TRIP IN HOLE AND LAY DOWN DRILL PIPE
 BEGIN TEARING OUT MUD PUMPS AND THIRD PARDY EQUIPMENT.
 CLEAN MUD TANKS AND TRANSFER 24 M3 OF DRILLING FLUID TO SEAMUS SITE

FUEL RIG 9401 L, BOILER 5513L
 BRANDT LIGHT PLANT 509 L

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	01:15	1.25	1.25	6	TRIPS	TRIP IN HOLE FROM 0M TO 830
01:15	03:30	2.25	3.50	6	TRIPS	LAY DOWN DRILL PIPE TRIP SHEET MEAS. 3.5m3 CALC.3.36m3 DIFF.0.14m3
03:30	04:15	0.75	4.25	6	TRIPS	TRIP IN HOLE FROM 0M TO 550M
04:15	06:00	1.75	6.00	6	TRIPS	LAY DOWN DRILL PIPE FROM 550M TO 0M WITH FLOW CHECKS AT 550M AND OUT OFF HOLE TRIP SHEET MEAS. 2.55 CALC. 2.24 DIFF.0.31
06:00	06:30	0.50	6.50	7	RIG SERVICE	CLEAN - FLOOR
06:30	06:45	0.25	6.75	7	RIG SERVICE	RIG SERVICE GREASED DRAWWORKS,CHECKED OILS FUNCTION BLIND RAMS WHILE OUT OF HOLE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	12:00	5.00	12.00	22	TEAR DOWN	RIG OUT RIG FLOOR / TONGS / PIPE SPINNER / BAILS / ELEVATORS / LAY DOWN SUBS TO BE INSPECTED AND PACK IT ALL AWAY , REMOVE KELLY BUSHINGS AND KELLY SPINNER FROM KELLY BAR AND LAY THEM DOWN AND PACK AWAY , LAY DOWN KELLY BAR AND SOCK
12:00	18:30	6.50	18.50	22	TEAR DOWN	LAY DOWN SWIVEL / CROSSOVER SUBS AND PACK AWAY , DISCONNECT CHOKE LINE , LAY DOWN MOUSEHOLE , FLIP V-DOOR , TAKE OFF FLOW LINE , RIG OUT CATCH CAN AND FLOW TEE , CLEAN UP SUB STRUCTURE AND OTHER AREAS OF RIG AND PREPARE FOR NIPPLE DOWN
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	00:00	5.25	24.00	22	TEAR DOWN	TEAR DOWN RE-ARRANGE BLEEDER AND POP VALVE ASSEMBLY LINES CLEAN UP

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

AFE Number	Total AFE Amount
Daily Cost Total 42,037.00	Cum Cost To Date 8,192,265.42
Daily Mud Cost	Mud Additive Cost To Date 419,137.18
Depth Start (mKB) 2,220.00	Depth End (mKB) 2,220.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869
Randy Kavanagh	709 363 7261
Well Site Office	709 636 4147

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)
Pres (kPa)	Slow Spd No	Strokes (s...) 0	Eff (%)

Mud Additive Amounts		
Description	Cost (/unit)	Consumed

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	TEAR DOWN
00:00	Safety Meeting	RIGGING OUT

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 12/4/2010
 Report #: 99.0, DFS: 86.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather PARTLY CLOUDY	Temperature (°C) 5	Road Condition FAIR	Hole Condition
Operations at Report Time LOWER TOP SECTION DERRICK		Operations Next Report Period LOWER DERRICK & TEAR OUT	

Operations Summary
 NO ACCIDENTS OR INCIDENTS REPORTED
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING

RIG OUT POWER CORDS. CLEAN MUD TANKS. START TO NIPPLE DOWN BOP'S.

FUEL RIG 94018681 L, BOILER 5513L
 BRANDT LIGHT PLANT 509 L

Time Log

Start Time	End Time	Dur. (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:45	6.75	6.75	22	TEAR DOWN	CONTINUE TO WORK ON BLEEDER LINE ASSEMBLY, RIG OUT PASON CORDS, REMOVE FLOW LINE, CLEAN SHAKERS, CELLAR, PUMP HOUSE
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	12:00	5.00	12.00	22	TEAR DOWN	CONTINUE TO RIG OUT, CLEAN MUD TANKS
12:00	18:30	6.50	18.50	22	TEAR DOWN	CONTINUE TO CLEAN MUD TANKS AND RIG OUT B.O.P.
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING, CREW HANDOVER NOTES
18:45	00:00	5.25	24.00	22	TEAR DOWN	CLEAN MUD TANKS AND RIG OUT B.O.P. (OPEN RAM DOORS AND CLEAN INSIDE AND INSPECT RAMS)

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

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	

AFE Number	Total AFE Amount
Daily Cost Total 31,135.00	Cum Cost To Date 8,223,400.42
Daily Mud Cost	Mud Additive Cost To Date 419,137.18
Depth Start (mKB) 2,220.00	Depth End (mKB) 2,220.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts

Job Contact	Mobile
Well Site Office	709 636 4147
Randy Kavanagh	709 363 7261
Bill Williams	709 765 1074
Ian O'leary	709 725 4365
Tim Kennedy	780 913 1869

STONEHAM DRILLING INC., 11

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

1, GARDNER DENVER, PZ-11

Pump Number 1	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No	No	0	

2, GARDNER DENVER, PZ-11

Pump Number 2	Pwr (kW)	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.015	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...) 0.017	
Pres (kPa)	Slow Spd	Strokes (s...)	Eff (%)
No	No	0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Safety Checks

Time	Type	Description
12:00	Safety Meeting	LAY DOWN B.O.P.
00:00	Safety Meeting	LAYING OUT BOP

Wellbores

Wellbore Name	KO MD (mKB)
Original Hole	



Daily Drilling

Report for: 12/5/2010
 Report #: 100.0, DFS: 87.63
 Depth Progress: 0.00

Well Name: NALCOR ET.AL FINNEGAN #1

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	License No. 3-102	State/Province Newfoundland
Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM	Ground Elevation (m) 118.75	KB-Ground Distance (m) 6.25
Weather	Temperature (°C)	Road Condition FAIR	Hole Condition

Operations at Report Time
 TEAR OUT RIG

Operations Next Report Period
 LOWER DERRICK AND CLEAN UP LEASE

Operations Summary
 NO ACCIDENTS OR INCIDENTS REPORTED
 NO MOOSE, BEARS OR CARIBOU SIGHTED
 THE CASING GAS VENT IS FLOWING STRAIGHT THROUGH 2" LINE TO FLARE STACK.
 PASON SENSOR GAUGE ON CASING
 START TO NIPPLE DOWN BOP;S
 RIG DOWN DERRICK EQUIPMENT AND LINES
 LOWER TOP SECTION OF DERRICK
 RIG OUT POWER CORDS. CLEAN MUD TANKS.
 PREPARE TO LOWER DERRICK
 RIG RELEASED AT 23:59 DEC 05/ 2010

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
00:00	06:45	6.75	6.75	22	TEAR DOWN	CONTINUE TO CLEAN MUD TANKS AND RIG OUT B.O.P., CHANGE UPPER PIPE RAM RUBBERS
06:45	07:00	0.25	7.00	21	SAFETY MEETING	SAFETY MEETING/CREW HANDOVER
07:00	09:30	2.50	9.50	22	TEAR DOWN	CONTINUE TO RIG OUT , PREPARE DERRICK TO SCOPE IN , RIG OUT PREFABS AND INSTALL TRAVELLING BEAMS IN SUB
09:30	09:45	0.25	9.75	21	SAFETY MEETING	SAFETY MEETING AND INSPECTION PRIOR TO SCOPING DERRICK DOWN
09:45	10:15	0.50	10.25	22	TEAR DOWN	SCOPE DOWN TOP SECTION
10:15	12:00	1.75	12.00	22	TEAR DOWN	RIG DERRICK TO LAY OVER
12:00	18:30	6.50	18.50	22	TEAR DOWN	CONTINUE TO RIG OUT , TIDY UP SEA-CAN TO PACK THINGS AWAY , LOAD OUT MUD PRODUCTS AND RIG OUT MUD TANKS
18:30	18:45	0.25	18.75	21	SAFETY MEETING	SAFETY MEETING , CREW HANDOVER NOTES
18:45	00:00	5.25	24.00	22	TEAR DOWN	CONTINUE TO RIG OUT, LAY DOWN MUD TANK ROOFS, TAKE DEGASSER LINES APART , LEAVE 2" VENT LINE FROM CASING BOWL CONNECTED, SET UP DRILL COLLARS ON RACKS FOR INSPECTION

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 Tg

AFE Number	Total AFE Amount
Daily Cost Total 30,098.00	Cum Cost To Date 8,253,498.42
Daily Mud Cost	Mud Additive Cost To Date 419,137.18
Depth Start (mKB) 2,220.00	Depth End (mKB) 2,220.00
Target Formation Aguathuna	Target Depth (mKB) 3,250.00
Last Casing String Intermediate, 2,276.00mKB	

Daily Contacts	
Job Contact	Mobile
Bill Williams	709 765 1074
Randy Kavanagh	709 363 7261
Ian Oleary	709 725 4365
Well Site Office	709 636 4147
Tim Kennedy	780 913 1869

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

1, GARDNER DENVER, PZ-11			
Pump Number 1	Pwr (kW) 279.0	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	
Pres (kPa) No	Slow Spd No	Strokes (s...) 0	Eff (%) 0

2, GARDNER DENVER, PZ-11			
Pump Number 2	Pwr (kW) 279.0	Rod Dia (mm)	
Liner Size (mm) 152.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	0.15
Liner Size (mm) 165.0	Stroke (mm) 279.0	Vol/Stk OR (m³/...)	0.17
Pres (kPa) No	Slow Spd No	Strokes (s...) 0	Eff (%) 0

Mud Additive Amounts		
Description	Cost (/unit)	Consumed

Safety Checks		
Time	Type	Description
12:00	Safety Meeting	RIG OUT

Wellbores	
Wellbore Name	KO MD (mKB)
Original Hole	

Appendix F – Casing & Cement Reports



Casing

Well Name: NALCOR ET.AL FINNEGAN #1

Liner

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Wellbore

Wellbore Name Original Hole			Kick Off Depth (mKB)		
Section	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Surface	444.5	6.25	572.00	9/9/2010	9/16/2010
Intermediate	311.0	572.00	2,285.00	9/21/2010	11/1/2010
	216.0	2,285.00	3,130.00	11/13/2010	11/25/2010

Wellhead

Type	Install Date	Service	Comment
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Wellhead Components

Description	Make	Model	SN	Top WP (kPa)
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Casing

Casing Description Liner	Set Depth (mKB)	Run Date	Set Tension (daN)
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	177.8	43.157	L-80		85	1,129.30	-1,143.02	-13.72				157.1
Float Collar	177.8	43.157	L-80		1	0.40	-13.72	-13.32				157.1
Casing Joints	177.8	43.157	L-80		1	12.92	-13.32	-0.40				157.1
Float Shoe	177.8	43.100	L-80		1	0.40	-0.40	0.00				



Casing

Well Name: NALCOR ET.AL FINNEGAN #1

Production

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Wellbore

Wellbore Name Original Hole			Kick Off Depth (mKB)		
Section	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Surface	444.5	6.25	572.00	9/9/2010	9/16/2010
Intermediate	311.0	572.00	2,285.00	9/21/2010	11/1/2010
	216.0	2,285.00	3,130.00	11/13/2010	11/25/2010

Wellhead

Type	Install Date	Service	Comment
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Wellhead Components

Description	Make	Model	SN	Top WP (kPa)

Casing

Casing Description Production	Set Depth (mKB)	Run Date	Set Tension (daN)
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)
					1	0.00	0.00	0.00				



Casing

Well Name: NALCOR ET.AL FINNEGAN #1

Surface

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Wellbore

Wellbore Name Original Hole			Kick Off Depth (mKB)		
Section	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Surface	444.5	6.25	572.00	9/9/2010	9/16/2010

Wellhead

Type	Install Date	Service	Comment
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Wellhead Components

Description	Make	Model	SN	Top WP (kPa)
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Casing

Casing Description Surface	Set Depth (mKB) 570.00	Run Date 9/17/2010	Set Tension (daN)
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	339.7	81.105	K-55	Buttress Thread	43	550.00	6.16	556.16				320.4
Float Collar	339.7	81.105	K-55	Buttress Thread	1	0.71	556.16	556.87				320.4
Casing Joints	339.7	81.105	K-55	Buttress Thread	1	12.40	556.87	569.27				320.4
Float Shoe	340.0			Buttress Thread	1	0.73	569.27	570.00				



Casing

Well Name: NALCOR ET.AL FINNEGAN #1

Intermediate

API/UWI N/A	Surface Legal Location 50:5:40.893N / 57:36:27.955W	Field Name PARSONS POND	License No. 3-102	State/Province Newfoundland	Well Configuration Type VERT
Ground Elevation (m) 118.75	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.25	KB-Casing Flange Distance (m)	Spud Date 9/9/2010 9:00:00 AM	Rig Release Date 12/5/2010 11:59:00 PM

Wellbore

Wellbore Name Original Hole			Kick Off Depth (mKB)		
Section	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Surface	444.5	6.25	572.00	9/9/2010	9/16/2010
Intermediate	311.0	572.00	2,285.00	9/21/2010	11/1/2010

Wellhead

Type	Install Date	Service	Comment
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Wellhead Components

Description	Make	Model	SN	Top W/P (kPa)
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Casing

Casing Description Intermediate	Set Depth (mKB) 2,276.00	Run Date 11/7/2010	Set Tension (daN)
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)
					0	0.00	3.53	3.53				
Casing Joints	244.5	64.735	L-80	BT & C	1	8.00	3.53	11.53				222.4
					1	6.40	11.53	17.93				
Casing Joints	244.5	64.735	L-80	BT & C	41	570.31	17.93	588.24				222.4
Casing Joints	244.5	64.735	L-80		1	12.81	588.24	601.05				222.4
Casing Joints	244.5	64.735	L-80	8 -RD	120	1,646.23	601.05	2,247.28				222.4
Float Collar	244.5	64.735	L-80	8 -RD	1	0.64	2,247.28	2,247.92				222.4
Casing Joints	244.5	64.735	L-80	8 -RD	2	27.39	2,247.92	2,275.31				222.4
Float Shoe	244.5			8 -RD	1	0.69	2,275.31	2,276.00				

CUSTOMER:	NALCOR ENERGY - OIL AND GAS INC.
Address:	500 COLUMBUS DRIVE PO BOX 12800 ST. JOHN'S NL
Representative:	Bill Williams

Service Order	S327418	Job Date	17-Sep-10
Job Type	Surface Casing Cement	Proposal	
UWI:	0	Rig	Stoneham #11
Well Name	Finnegan #1	Well Type	New
Formation			
Reservoir Fluid	0		
BJ Representative	Jones, Malcolm H.		

WELL DATA	O.D. (mm)	Density (kg/m)	Grade	Top Depth (m)	Bottom Depth (m)
Open Hole	444.0			0.00	572.00
Casing	339.7	81.10	K-55	0.00	570.73
Tool					
Tool					
Tool	Float Collar				556.10

DRILLING FLUID	Circulation Hrs	Viscosity cP	Plastic Viscosity mPa.s	Yield Point Pa	Density kg/m3
Mud	2.0	65			1100

PLUGS			
	Type	Size(mm)	Bumped
Top	Rubber	339.7	Yes
Bottom	Rubber	339.7	

TEMPERATURES (C)			
Ambient	12	Slurry Cement	15
Dry Cement	12	Mix Water	16
BHST			

Float Holding	
Pump Out Lines	No

Pipe Movement	Reciprocating
Cement Mixing System	Dustless

PREFLUSH	8.00	m³	
Density (kg/m³)	1000		
Yield (m³/t)	1.000		

Density (kg/m³)			
Yield (m³/t)			

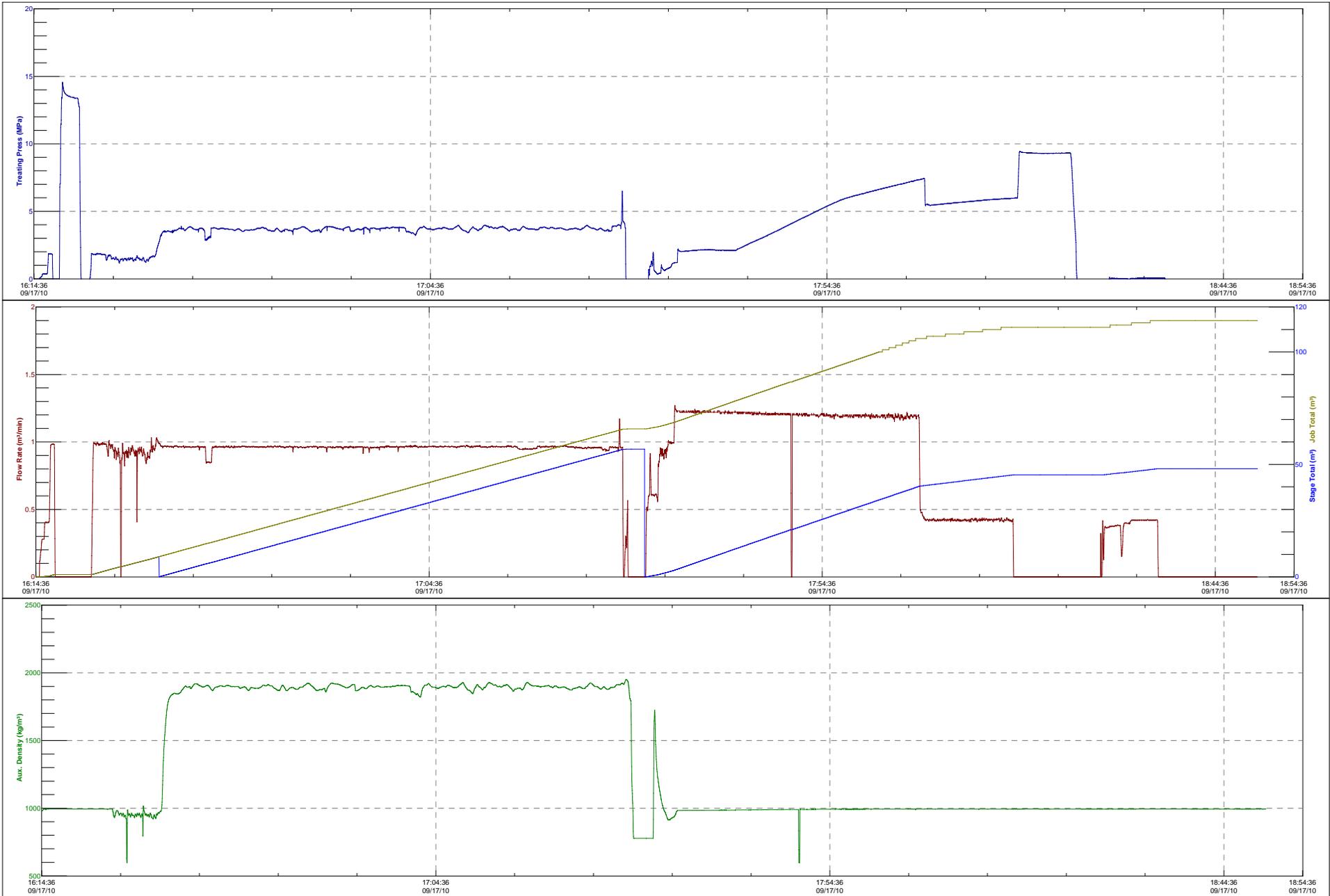
RETURNS Stage One	
Type	Cement
Circulation	Full
Volume (m3)	13

CEMENT	%	ADDITIVE	%	ADDITIVE	Design Interval	Slurry Yield	DENSITY		VOLUME	
							Slurry	DH Foam	Slurry	Displaced
74.60	t	Cement, Class G Oil Well Bulk			m	m³/t	kg/m³	kg/m³	m³	m³
					0	0.757	1901		56.50	45.00
					572					

					m	m³/t	kg/m³	kg/m³	m³	m³
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					m	m³/t	kg/m³	kg/m³	m³	m³
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Time	Pressure (MPa)		Volume Stage (m3)	Fluid Rate (m3/min)	N2 Rate sm3/min	Comments	Arrive on Location	2010-09-17	16:00	Hours
	Min	Max					Left Location	2010-09-17	23:00	Hours
						Safety Meeting				
19:44	0.5	1.0	1.00	0.60		Pump h20 ahead				
19:46	14.0	14.0				Pressure test				
19:52	1.0	1.8	7.00	1.00		Pump h20 ahead				
20:00	3.0	4.0	56.50	0.96		Mix & pump slurry				
21:00						Stop & drop plug				
21:04	0.5	7.5	45.00	1.10		Displace h20				
21:48	9.0	9.0				Bump Plug				
21:54						Bleed off				
						Floats holding				



CUSTOMER:	NALCOR ENERGY - OIL AND GAS INC.
Address:	500 COLUMBUS DRIVE PO BOX 12800 ST. JOHN'S NL
Representative:	Bill Williams

Service Order	S353796	Job Date	07-Nov-10
Job Type	Intermediate Casing Cement	Proposal	P251531-4
UWI:	FINNEGAN #1	Rig	Stoneham 11
Well Name	NALCOR ET AL FINNEGAN #1		
Formation		Well Type	New
Reservoir Fluid	Gas		
BJ Representative	Weisgerber, William D.		

WELL DATA	O.D. (mm)	Density (kg/m)	Grade	Top Depth (m)	Bottom Depth (m)
Casing	339.7	81.10		0.00	570.00
Open Hole	311.2			570.00	2263.00
Casing	244.5	64.74	L-80	0.00	2264.00
Tool					
Tool	Plug Loading Head				
Tool	Float Collar				2235.92

DRILLING FLUID	Circulation Hrs	Viscosity cP	Plastic Viscosity mPa.s	Yield Point Pa	Density kg/m3
Mud	2.0	55			1300

PLUGS			
	Type	Size(mm)	Bumped
Top	EZ Drill	244.5	Yes
Bottom			

TEMPERATURES (C)			
Ambient	10	Slurry Cement	23
Dry Cement	21	Mix Water	18
BHST			

Float Holding	Yes
Pump Out Lines	No

Pipe Movement	Reciprocating
Cement Mixing System	Dustless

PREFLUSH	9.00	m³	Water
Density (kg/m³)	1350	51.97	% Barite Weighting Additive
Yield (m³/t)	1.103	1.00	% Ultra-Flush II Concentrate

Density (kg/m³)	Yield (m³/t)

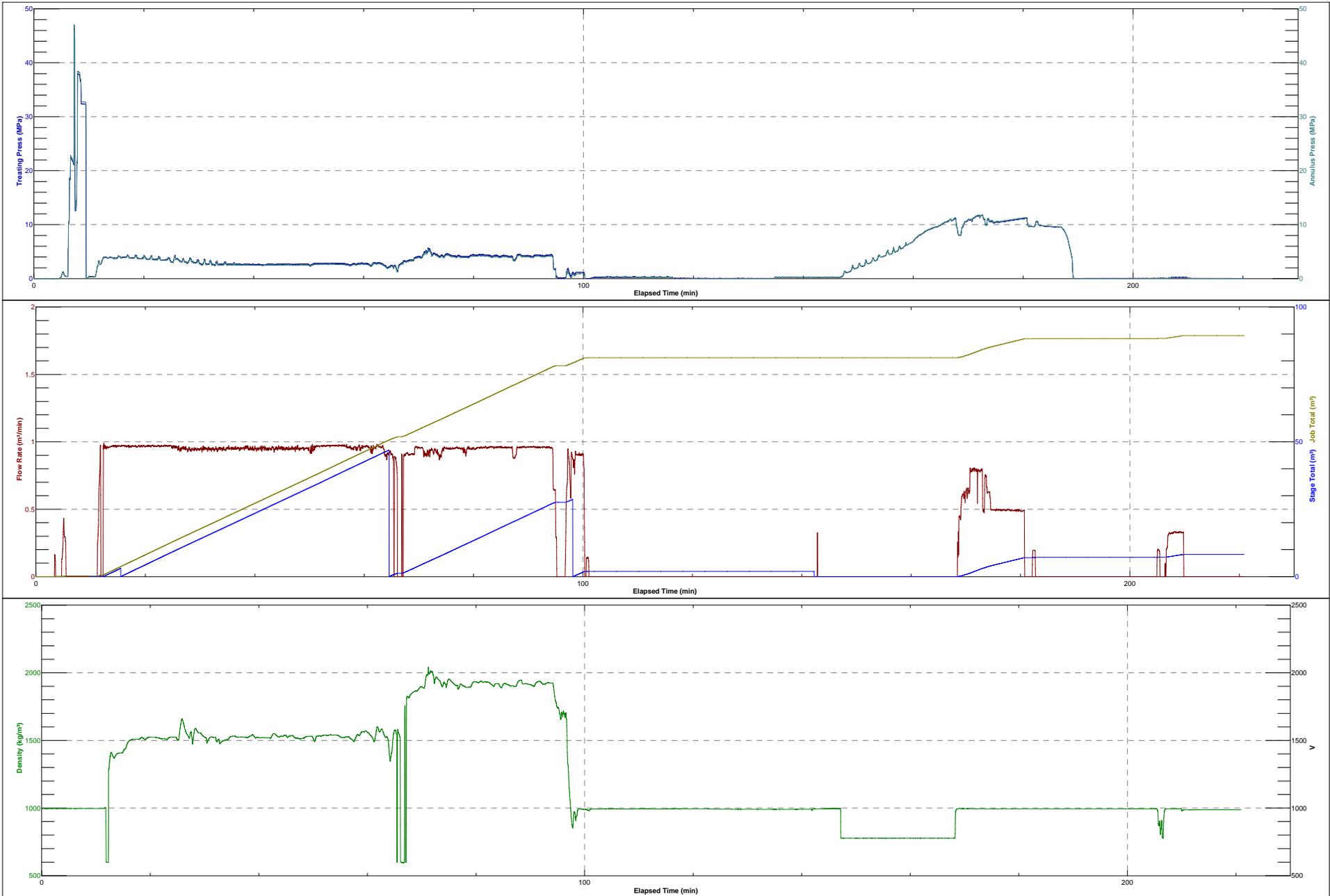
RETURNS Stage One	
Type	Scavenger
Circulation	Full
Volume (m3)	1

CEMENT	%	ADDITIVE	%	ADDITIVE	Design Interval	Slurry Yield	DENSITY		VOLUME	
							Slurry	DH Foam	Slurry	Displaced
SCAVENGER	1.10	R-3 Cement Retarder			m	m³/t	kg/m³	kg/m³	m³	m³
1.75 t	0.40	FILL-LITE 2-100 Cement Blend			0	1.900	1400		3.00	86.80
					0					

FILL CEMENT	1.10	R-3 Cement Retarder			m	m³/t	kg/m³	kg/m³	m³	m³
37.03 t	0.40	FILL-LITE 2-100 Cement Blend			0	1.317	1518		48.80	0.00
					1594					

TAIL CEMENT	0.40	FL-5 Fluid Loss Control			m	m³/t	kg/m³	kg/m³	m³	m³
37.90 t	0.30	Cement, Class G Oil Well Bulk			1594	0.757	1901		28.70	0.00
					2280					

Time	Pressure (MPa)		Volume Stage (m3)	Fluid Rate (m3/min)	N2 Rate sm3/min	Comments	Arrive on Location	2010-11-07	14:00	Hours
	Min	Max					Left Location	2010-11-08	01:30	Hours
						Pre job meeting.				
						Rig in, safety meeting.				
21:35		3.0	9.00	1.00		Pump sweep.				
21:45		30.0	0.50			Fill lines, pressure test.				
21:47		4.0	3.00	1.00		Pump scavenger.				
21:50	3.0	4.0	49.00	1.00		Pump fill cement.				
22:40		4.5	28.70	1.00		Pump tail cement.				
23:10						Stop, drop plug.				
23:12		1.0	1.80	0.90		Start displacement.				
23:15	0.3	12.0	80.00	1.00		Rig Displaces mud.				
24:35		10.0	5.20	1.00		Final displace pressure.				
24:40		9.5				Stop pump.				
24:45						Bleed off, check floats.				
1:30						Rig out.				



CUSTOMER:	NALCOR ENERGY - OIL AND GAS INC.
Address:	500 COLUMBUS DRIVE PO BOX 12800 ST. JOHN'S NL
Representative:	Bill Williams

Service Order	S339322	Job Date	30-Nov-10
Job Type	Abandonment Cement - Primary	Proposal	-,-
UWI:	FINNIGAN	Rig	Stoneham Rig 11
Well Name	Finnigan		
Formation			
Reservoir Fluid	Gas	Well Type	New
BJ Representative	Power, William R.		

WELL DATA	O.D. (mm)	Density (kg/m)	Grade	Top Depth (m)	Bottom Depth (m)
Casing	244.5	67.43	L-80	0.00	2276.00
Open Hole	216			2276.00	3020.00
Drill Pipe	127	29.02		0.00	2783.00
Drill Pipe	73			2783.00	3020.00
Tool					
Tool					
Tool	Float Collar				

DRILLING FLUID	Circulation Hrs	Viscosity cP	Plastic Viscosity mPa.s	Yield Point Pa	Density kg/m3
Mud	18.0	90			1250

PLUGS			
	Type	Size(mm)	Bumped
Top			
Bottom			

TEMPERATURES (C)			
Ambient	2	Slurry Cement	13
Dry Cement	5	Mix Water	20
BHST			

Float Holding	
Pump Out Lines	

Pipe Movement	None
Cement Mixing System	Dustless

PREFLUSH	4.50	m³	Water
Density (kg/m³)			
Yield (m³/t)			

PREFLUSH 2	4.50	m³	Water
Density (kg/m³)			
Yield (m³/t)			

RETURNS Stage One	
Type	Mud
Circulation	Full
Volume (m3)	30

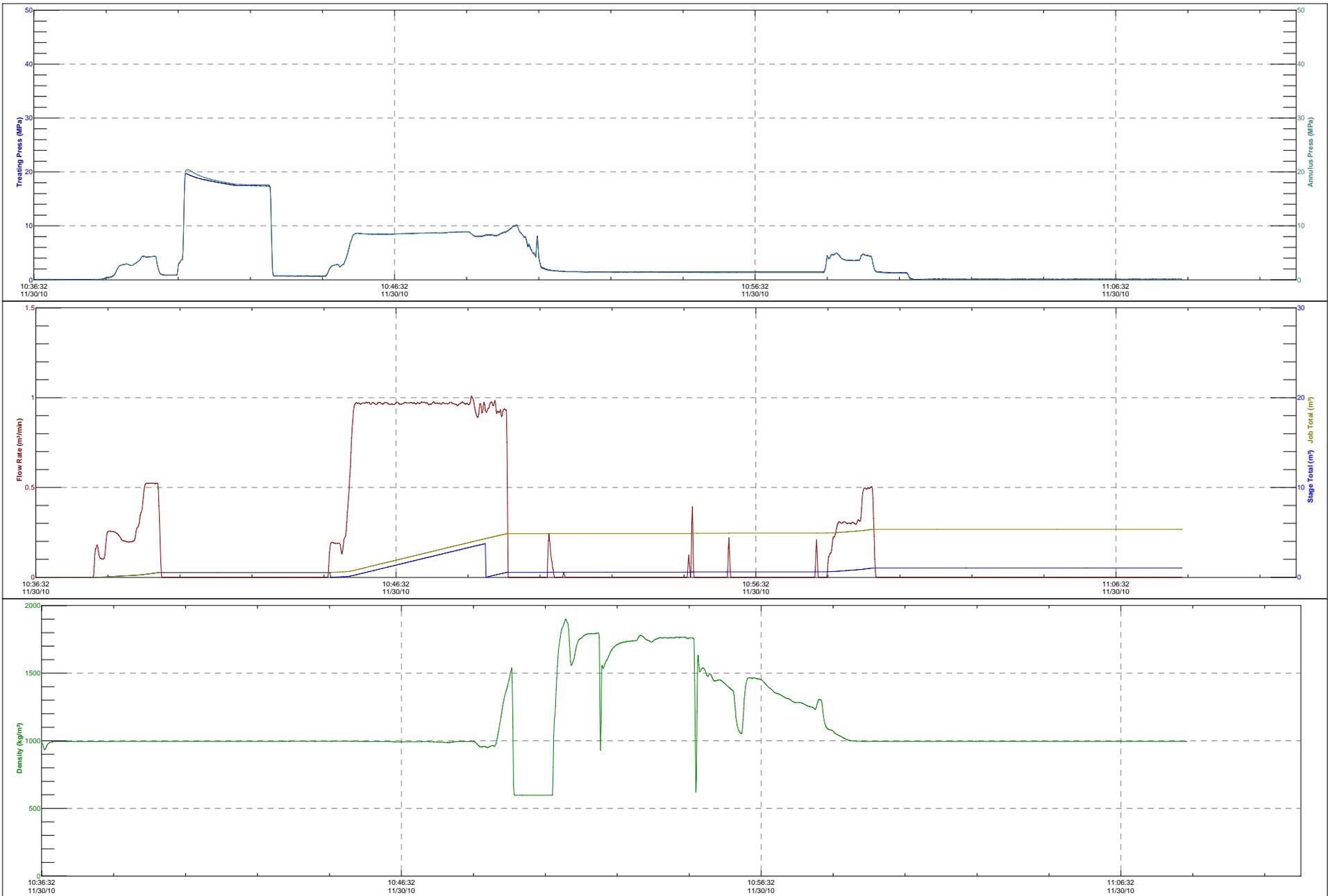
CEMENT	%	ADDITIVE	%	ADDITIVE	Design Interval	Slurry Yield	DENSITY		VOLUME	
							Slurry	DH Foam	Slurry	Displaced
ABANDONMENT PLUG 1	0.20	R-3 Cement Retarder	0.60	FL-63 Fluid Loss Control	m	m³/t	kg/m³	kg/m³	m³	m³
7.00 t Cement, Class G Oil Well Bulk	0.50	A-11 Accelerator	2.00	Microsil 12P	2930	0.757	1901		5.30	24.50
	0.50	CD-32 Dispersant			3030					

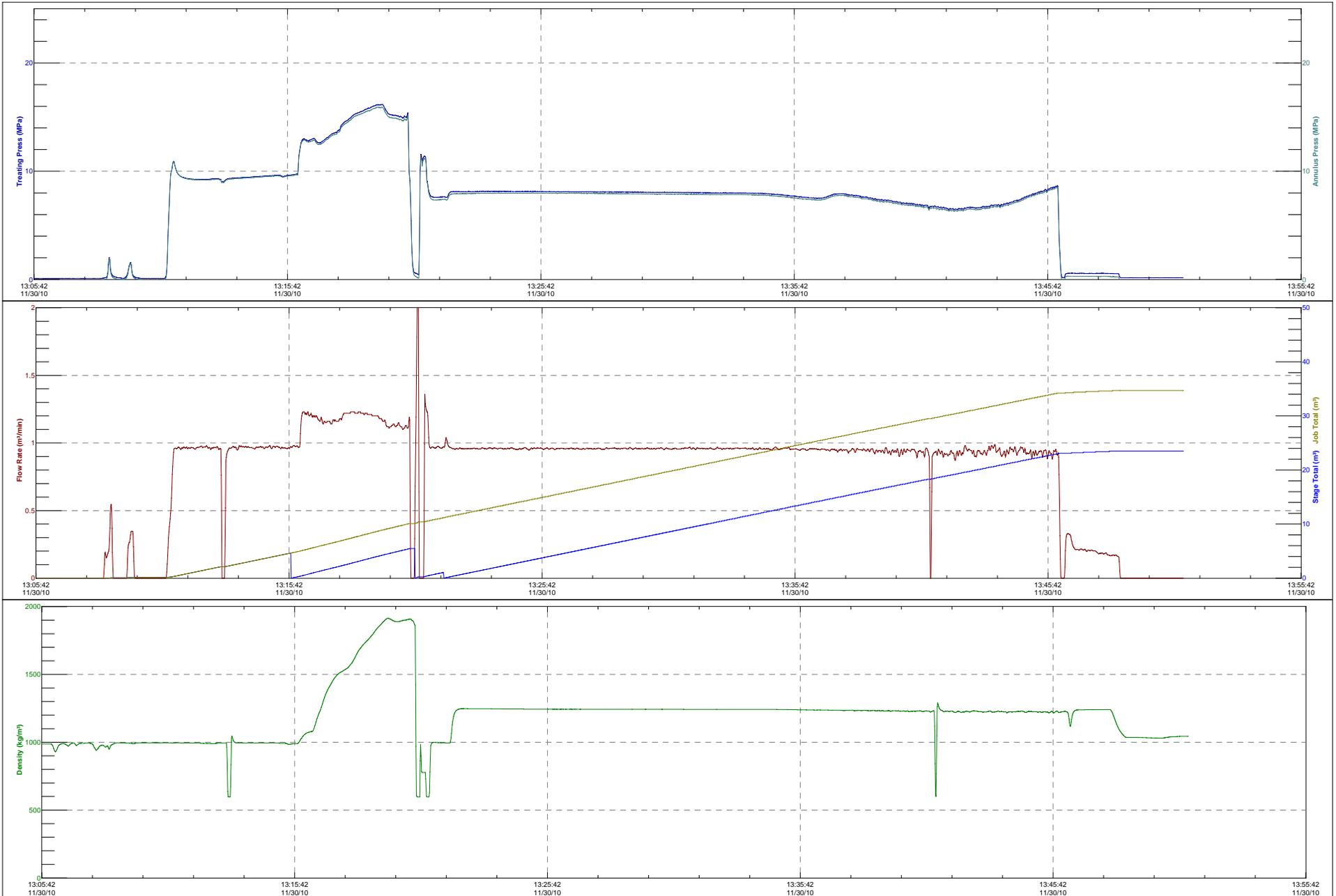
ABANDONMENT PLUG 2	0.20	R-3 Cement Retarder	0.60	FL-63 Fluid Loss Control	m	m³/t	kg/m³	kg/m³	m³	m³
7.50 t Cement, Class G Oil Well Bulk	0.50	A-11 Accelerator	2.00	Microsil 12P	2250	0.757	1901		5.70	20.00
	0.50	CD-32 Dispersant			2350					

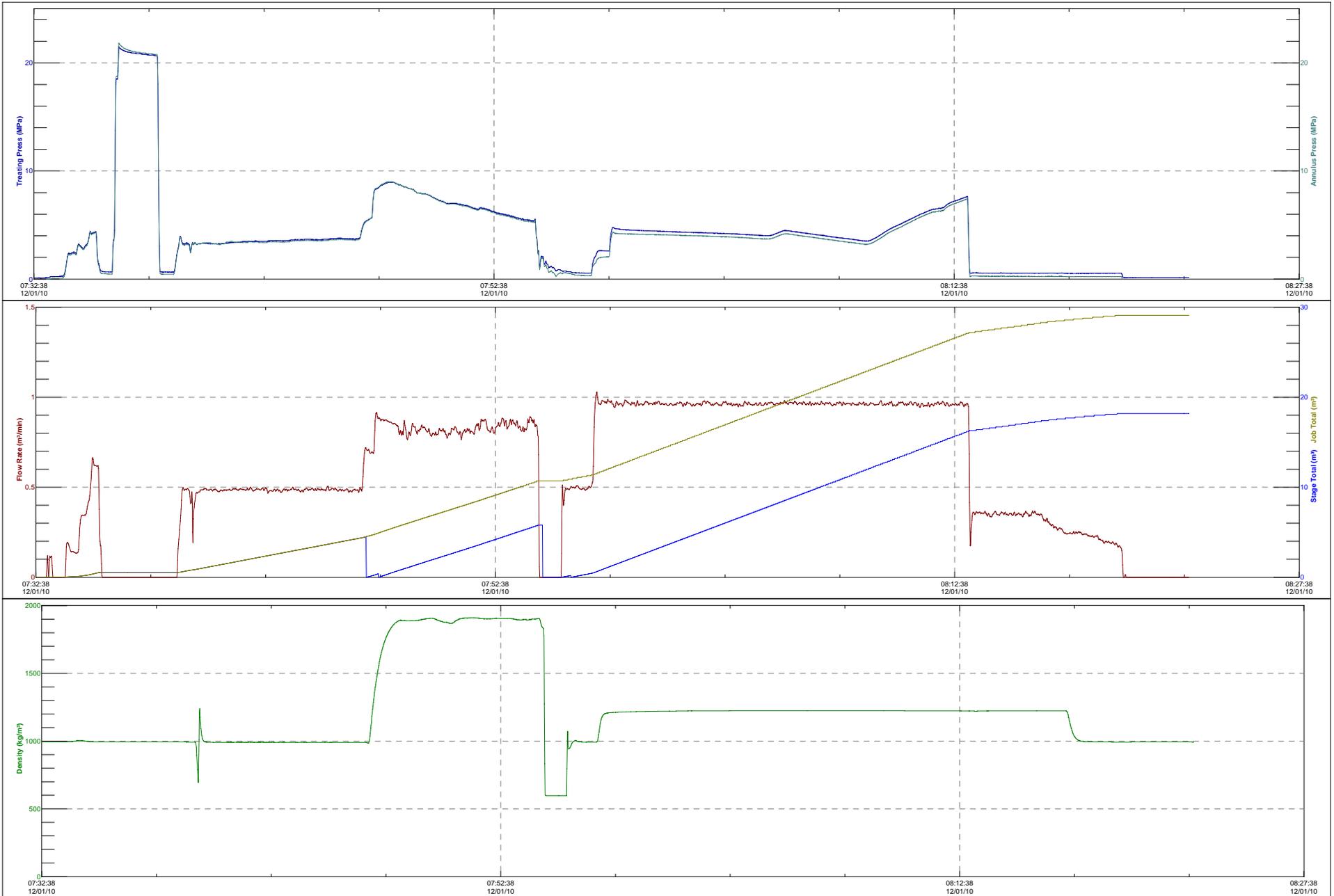
					m	m³/t	kg/m³	kg/m³	m³	m³

Time	Pressure (MPa)		Volume Stage (m3)	Fluid Rate (m3/min)	N2 Rate sm3/min	Comments	Arrive on Location	2010-11-30	14:00	Hours
	Min	Max					Left Location	2010-12-01	14:00	Hours
09:00						PRE TRIP MEETING				
10:00						*** CEMENT PLUG FROM 3020 - 2930 *****				
16:00						PJSM				
16:08		0.5	0.50	0.50		FILL LINES				
16:09		20.0				PRESSURE TEST				
16:11		9.0	4.00	1.00		START WATER SPACER				
16:15		15.0	5.30	1.00		START SLURRY				
16:20		8.0	1.00	1.00		START WATER SPACER				
16:21		8.0	23.50	1.00		START MUD BEHIND				
16:46						STOP PUMP				
16:47						BLEED LINE				
						WAIT ON CEMENT TO SET				
						*** CEMENT PLUG FROM 2250 - 2350 ****				
10:34		2.3	0.50	0.50		FILL LINES				
10:36		21.0				PRESSURE TEST				
10:39		3.6	4.00	0.44		START WATER SPACER				
10:47		7.3	5.70	1.00		START SLURRY				
10:55		4.0	1.00	1.00		START WATER SPACER				
10:56		7.6	19.00	1.00		START MUD BEHIND				
11:19						STOP PUMP				

11:20						BLEED LINE
11:21						RIG OUT BJ SERVICES
						0
						0
						0
						0
						0

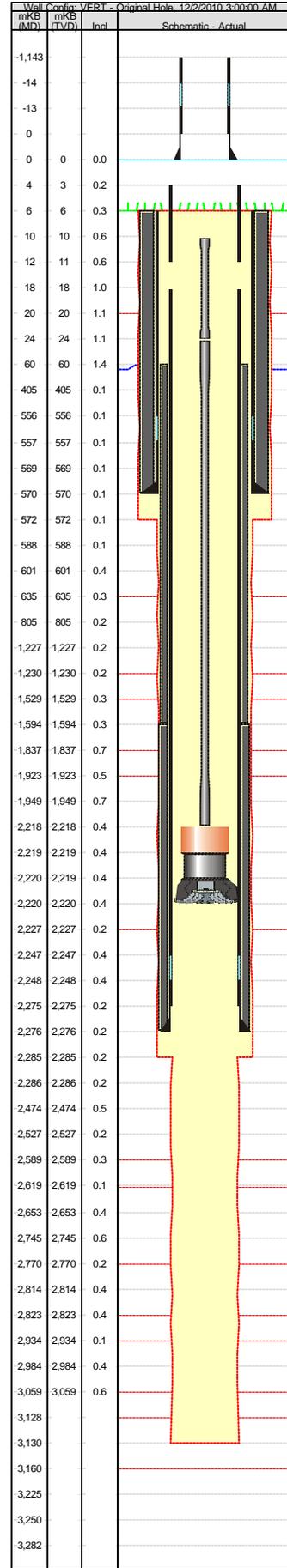






Appendix G – Bottomhole & Clean Out Assemblies

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #26, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
2,196.00		2,220.00		24.00		3.00		8.0	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
23RR	0.29	SECURITY	EQHD42R	11265721		---		-----	
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)	
	2,209.55	4	4	50	50				
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	2,209....
80	Drill pipe - Stands								2,194....	2,195....
1	X/O	165.0							0.62	1.82
1	BIT SUB	165.0							0.91	1.20

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	12/2/2010 00:00	12/2/2010 03:00	3.00	2,196.00	2,220.00	24.00	8.0	4	50		5,100

Mud Checks								
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #25, 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	
23	0.29	SECURITY	EQHD42R	11265721		---		0-0-NO-A-0-0-0-NO-LOG	
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)		
	3,012.40								
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								13.71	3,012....
97	Drill pipe - Stands								2,660....	2,998....
8	HWDP(4.5 IN)	127.0							109.04	338.55
1	X/O	165.0							0.62	229.51
4	DC (6.50 IN)	165.0							54.53	228.89
1	X/O	159.0							0.48	174.36
1	JARS-HYD/MECH	167.0							9.06	173.88
1	X/O	159.0							0.43	164.82
12	DC (6.50 IN)	165.0							163.18	164.39
1	BIT SUB	165.0							0.92	1.21

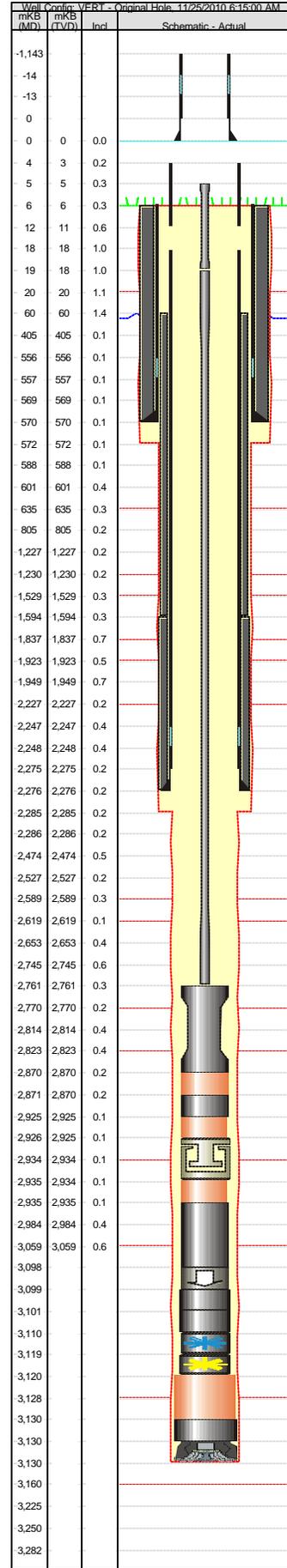
Drilling Parameters

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 (%)

Well Name: NALCOR ET.AL FINNEGAN #1



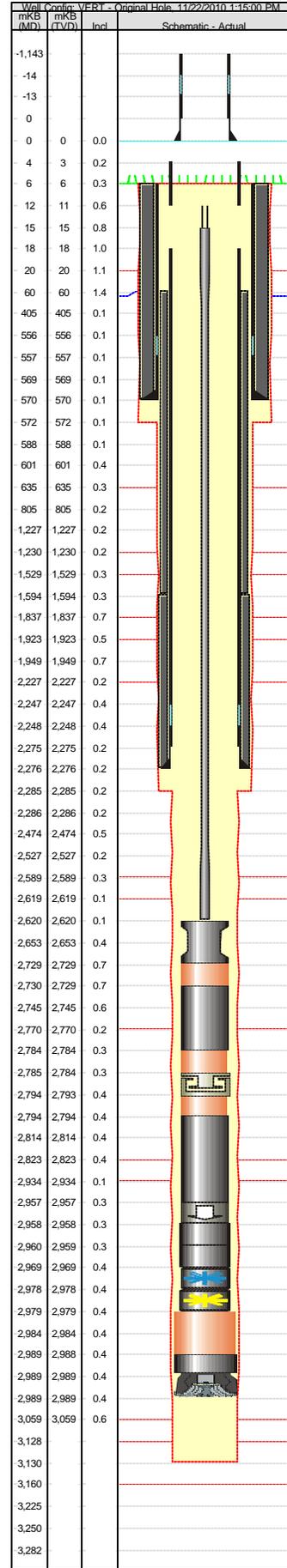
BHA #24, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
2,989.00		3,130.00		141.00		26.00		5.4	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
22	0.29	SMITH	MSI816WEBPX	JX0276		8-1-6-		1-1-BT-A-X-1.00-CC-DTF	
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)		
	3,125.22	18	18	102	102				
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	3,125....
100	Drill pipe - Stands								2,742....	3,111....
8	HWDP(4.5 IN)	127.0							109.04	369.15
1	X/O	165.0							0.62	260.11
4	DC (6.50 IN)	165.0							54.53	259.49
1	X/O	159.0							0.48	204.96
1	JARS-HYD/MECH	167.0							9.06	204.48
1	X/O	159.0							0.43	195.42
12	DC (6.50 IN)	165.0							163.18	194.99
1	FLOAT SUB	166.0							0.62	31.81
1	FILTER SUB	177.0							1.67	31.19
1	NM DC	174.0							9.46	29.52
1	MWD/LWD TOOL	167.0							9.38	20.06
1	MWD GAMMA SUB	178.0							0.75	10.68
1	VERTITRAK	208.0							9.42	9.93
1	DOG SUB	216.0							0.22	0.51

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	11/23/2010 12:00	11/23/2010 22:00	10.00	2,989.00	3,045.00	56.00	5.6	18	102		19,400
Original Hole	11/24/2010 00:00	11/24/2010 09:45	9.75	3,045.00	3,113.00	68.00	7.0	18	102		19,300
Original Hole	11/25/2010 00:00	11/25/2010 06:15	6.25	3,113.00	3,130.00	17.00	2.7	18	102		18,300

Mud Checks								
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
11/23/2010	3,013.00	KLA SHIELD	1215.0	23.0	8.000	10.5	0.3	9.5
11/24/2010	3,087.00	KLA SHIELD	1210.0	24.0	9.000	10.0	0.3	9.5

Well Name: NALCOR ET.AL FINNEGAN #1



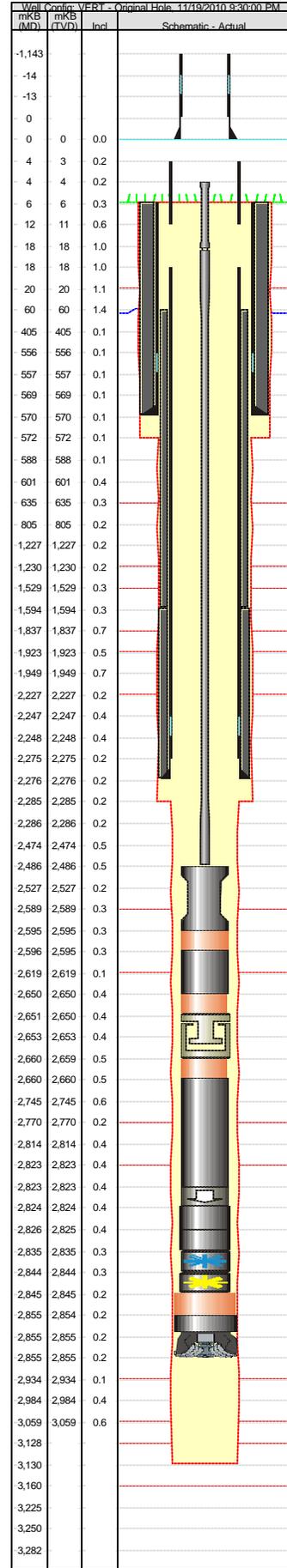
BHA #23, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
2,855.00		2,989.00		136.00		15.75		8.6	
Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull			
21	0.22	REED	M713-A3D	225678	---	-----			
String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)		
	2,974.42	19	18	204	102	1.850	1.850		
Comment 7*8.7									

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	2,974....
95	Drill pipe - Stands								2,605....	2,974....
8	HWDP(4.5 IN)	127.0							109.04	369.08
1	X/O	165.0							0.62	260.04
4	DC (6.50 IN)	165.0							54.53	259.42
1	X/O	159.0							0.48	204.89
1	JARS-HYD/MECH	167.0							9.06	204.41
1	X/O	159.0							0.43	195.35
12	DC (6.50 IN)	165.0							163.18	194.92
1	FLOAT SUB	166.0							0.62	31.74
1	FILTER SUB	177.0							1.67	31.12
1	NM DC	174.0							9.46	29.45
1	MWD/LWD TOOL	167.0							9.38	19.99
1	MWD GAMMA SUB	178.0							0.75	10.61
1	VERTITRAK	208.0							9.42	9.86
1	DOG SUB	216.0							0.22	0.44

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	11/20/2010 12:00	11/20/2010 14:15	2.25	2,855.00	2,865.00	10.00	4.4	19	102		20,000
Original Hole	11/21/2010 12:00	11/21/2010 23:00	11.00	2,865.00	2,956.00	91.00	8.3	18	102	1.850	19,500
Original Hole	11/22/2010 12:00	11/22/2010 13:15	1.25	2,956.00	2,989.00	33.00	26.4	19	102		19,500
Original Hole	11/22/2010 12:00	11/22/2010 13:15	1.25	2,987.00	2,989.00	2.00	1.6	19	102		19,500

Mud Checks								
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
11/20/2010	2,855.00	KLA SHIELD	1210.0	24.0	8.500	10.5	0.3	9.5
11/21/2010	2,925.00	Kla Sheild	1210.0	24.0	8.000	10.5	0.3	9.5

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #22, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
2,285.00		2,855.00		1,103.00		114.50		9.6	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
20	0.23	SMITH	MSi813WUESPX	JD9193		---		1-2-CT-A-X-0-BT-TF	
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)		
	2,851.05	20	11	202	90	1.850	1.600		
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								13.68	2,851....
90	Drill pipe - Stands								2,468....	2,837....
8	HWDP(4.5 IN)	127.0							109.04	369.11
1	X/O	165.0							0.62	260.07
4	DC (6.50 IN)	165.0							54.53	259.45
1	X/O	159.0							0.48	204.92
1	JARS-HYD/MECH	167.0							9.06	204.44
1	X/O	159.0							0.43	195.38
12	DC (6.50 IN)	165.0							163.18	194.95
1	FLOAT SUB	166.0							0.62	31.77
1	FILTER SUB	177.0							1.67	31.15
1	NM DC	174.0							9.46	29.48
1	MWD/LWD TOOL	167.0							9.38	20.02
1	MWD GAMMA SUB	178.0							0.75	10.64
1	VERTITRAK	208.0							9.44	9.89
1	DOG SUB	216.0							0.22	0.45

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	11/13/2010 12:00	11/13/2010 14:30	2.50	2,285.00	2,291.00	6.00	2.4	12	90	1.600	16,400
Original Hole	11/14/2010 00:00	11/14/2010 08:59	9.00	2,291.00	2,325.00	34.00	3.8	14	90	1.600	16,700
Original Hole	11/14/2010 00:00	11/14/2010 08:59	9.00	2,325.00	2,371.00	46.00	5.1	14	90		16,700
Original Hole	11/15/2010 00:00	11/15/2010 10:30	10.50	2,371.00	2,412.00	41.00	3.9	11	102	1.850	18,800
Original Hole	11/15/2010 12:00	11/15/2010 22:15	10.25	2,412.00	2,469.00	57.00	5.6	14	102	1.850	19,500
Original Hole	11/16/2010 00:00	11/16/2010 10:45	10.75	2,469.00	2,507.00	38.00	3.5	12	102		19,300
Original Hole	11/16/2010 12:00	11/16/2010 23:15	11.25	2,507.00	2,559.00	52.00	4.6	14	102		19,000
Original Hole	11/17/2010 00:00	11/17/2010 10:45	10.75	2,559.00	2,599.00	40.00	3.7	15	102		18,800
Original Hole	11/17/2010 12:00	11/17/2010 22:45	10.75	2,599.00	2,653.00	54.00	5.0	19	104		20,100
Original Hole	11/18/2010 12:00	11/18/2010 21:45	9.75	2,653.00	2,758.00	105.00	10.8	18	102		19,500
Original Hole	11/19/2010 00:00	11/19/2010 10:30	10.50	2,758.00	2,818.00	60.00	5.7	20	102		19,800
Original Hole	11/19/2010 12:00	11/19/2010 21:30	9.50	2,855.00	2,855.00	570.00	60.0	18	102		19,100

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
11/14/2010	2,344.00	Polymer	1225.0	23.0	7.500	10.0		9.5
11/15/2010	2,419.00	Polymer	1225.0	24.0	7.500	11.0		9.5
11/16/2010	2,525.00	Polymer	1225.0	23.0	7.500	10.5		10.0
11/17/2010	2,608.00		1220.0	25.0	7.500	10.5	0.3	9.5
11/18/2010	2,722.00	KLA SHIELD	1210.0	24.0	7.500	10.5	0.3	9.5
11/19/2010	2,827.00	KLA SHIELD	1210.0	25.0	8.000	10.5	0.3	9.5

Well Name: NALCOR ET.AL FINNEGAN #1

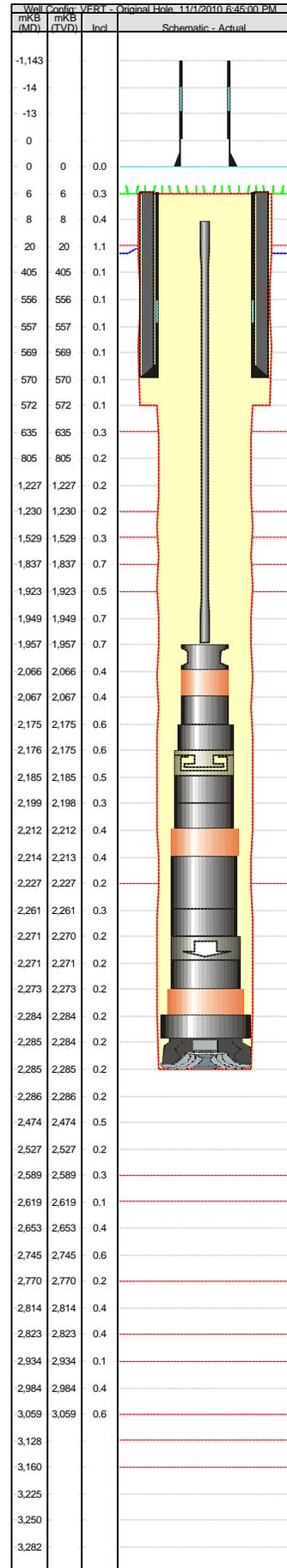
BHA #21, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
19RR	0.33	SMITH	GFI28B	PP7015		---		-----	
String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)		
	2,275.89								
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	2,275....
72	Drill pipe - Stands								1,974....	2,262....
8	HWDP(4.5 IN)	127.0							109.04	287.46
1	X/O	165.0							0.62	178.42
8	DC (6.50 IN)	165.0							108.75	177.80
1	BELL SUB	194.0							0.62	69.05
1	JARS-HYD/MECH	207.0							9.58	68.43
1	DC (8.00 IN)	204.0							13.35	58.85
1	DC (8.00 IN)	203.0							13.39	45.50
1	X/O	232.0							1.62	32.11
3	DC (9.00 IN)	227.0							28.43	30.49
1	X/O	216.0							0.80	2.06
1	BIT SUB	204.0							0.93	1.26

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)

Mud Checks								
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #20, Drilling Assembly

Depth In (mKB) 2,223.00		Depth Out (mKB) 2,285.00		Depth Drilled (m) 62.00		Drilling Time (hrs) 33.50		BHA ROP (m/hr) 1.9	
Bit Run 19	Length (m) 0.33	Make SMITH	Model GFI28B	Serial Number PP7015		IADC Codes ---		IADC Bit Dull 1-1-WT-A-0-0.00-NO-CP	
String Wt (daN)	String Length (m) 2,277.16	WOB (max) (daN) 25	WOB (min) (daN) 25	RPM (max) (rpm) 72	RPM (min) (rpm) 72	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)
0	Drill pipe - Singles								0.00	2,277....
71	Drill pipe - Stands								1,949....	2,277....
8	HWDP(4.5 IN)	127.0							109.04	327.88
1	X/O	165.0							0.62	218.84
8	DC (6.50 IN)	165.0							108.13	218.22
1	BELL SUB	194.0							0.62	110.09
1	JARS-HYD/MECH	207.0							9.58	109.47
1	DC (8.00 IN)	204.0							13.35	99.89
1	DC (8.00 IN)	203.0							13.39	86.54
1	X/O	232.0							1.62	73.15
5	DC (9.00 IN)	227.0							47.62	71.53
1	DC (9.00 IN)	226.0							9.49	23.91
1	FLOAT SUB	239.0							0.68	14.42
1	SUB - FILTER	242.0							1.53	13.74
1	VERTITRAK	260.0							11.59	12.21
1	DOG SUB	311.0							0.29	0.62

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	10/31/2010 00:00	10/31/2010 04:45	4.75	2,223.00	2,231.00	8.00	1.7	25	72		21,000
Original Hole	10/31/2010 12:00	10/31/2010 23:00	11.00	2,231.00	2,256.00	25.00	2.3	25	72		21,500
Original Hole	11/1/2010 00:00	11/1/2010 11:00	11.00	2,256.00	2,279.00	23.00	2.1	25	72		20,900
Original Hole	11/1/2010 12:00	11/1/2010 18:45	6.75	2,279.00	2,285.00	6.00	0.9	25	72		20,960

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
10/31/2010	2,238.00	Polymer	1255.0	30.0	12,000	9.0		10.5
11/1/2010	1,270.00	Polymer	1270.0	32.0	13,000	9.0	0.3	10.3

Well Name: NALCOR ET.AL FINNEGAN #1

Well Contig	VER	Original Hole	10/27/2010	21500	EM
mKB (MD)	mKB (TVD)	Inc	Schematic - Actual		
-1.143					
-14					
-13					
0					
0	0	0.0			
3	3	0.2			
6	6	0.3			
16	16	0.9			
20	20	1.1			
405	405	0.1			
556	556	0.1			
557	557	0.1			
569	569	0.1			
570	570	0.1			
572	572	0.1			
635	635	0.3			
805	805	0.2			
1,227	1,227	0.2			
1,230	1,230	0.2			
1,529	1,529	0.3			
1,837	1,837	0.7			
1,895	1,895	0.8			
1,923	1,923	0.5			
1,949	1,949	0.7			
2,004	2,004	0.6			
2,005	2,005	0.6			
2,113	2,113	0.4			
2,114	2,113	0.4			
2,123	2,123	0.5			
2,137	2,136	0.4			
2,150	2,150	0.4			
2,152	2,151	0.4			
2,199	2,199	0.3			
2,209	2,208	0.3			
2,209	2,209	0.3			
2,211	2,211	0.3			
2,222	2,222	0.4			
2,223	2,222	0.3			
2,223	2,223	0.3			
2,227	2,227	0.2			
2,285	2,285	0.2			
2,286	2,286	0.2			
2,474	2,474	0.5			
2,527	2,527	0.2			
2,589	2,589	0.3			
2,619	2,619	0.1			
2,653	2,653	0.4			
2,745	2,745	0.6			
2,770	2,770	0.2			
2,814	2,814	0.4			
2,823	2,823	0.4			
2,934	2,934	0.1			
2,984	2,984	0.4			
3,059	3,059	0.6			
3,128					
3,160					
3,225					
3,250					
3,282					

BHA #19, Drilling Assembly										
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)		
2,086.00		2,223.00		137.00		75.75		1.8		
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull		
18	0.33	SMITH	GF15B	PN4571		4-4-7-		2-2-WT-A-E-0.00-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)		
	2,220.35	26	18	80	70					
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								13.72	2,220....
68	Drill pipe - Stands								1,878....	2,206....
8	HWDP(4.5 IN)	127.0							109.04	327.88
1	X/O	165.0							0.62	218.84
8	DC (6.50 IN)	165.0							108.13	218.22
1	BELL SUB	194.0							0.62	110.09
1	JARS-HYD/MECH	207.0							9.58	109.47
1	DC (8.00 IN)	204.0							13.35	99.89
1	DC (8.00 IN)	203.0							13.39	86.54
1	X/O	232.0							1.62	73.15
5	DC (9.00 IN)	227.0							47.62	71.53
1	DC (9.00 IN)	226.0							9.49	23.91
1	FLOAT SUB	239.0							0.68	14.42
1	SUB - FILTER	242.0							1.53	13.74
1	VERTITRAK	260.0							11.59	12.21
1	DOG SUB	311.0							0.29	0.62

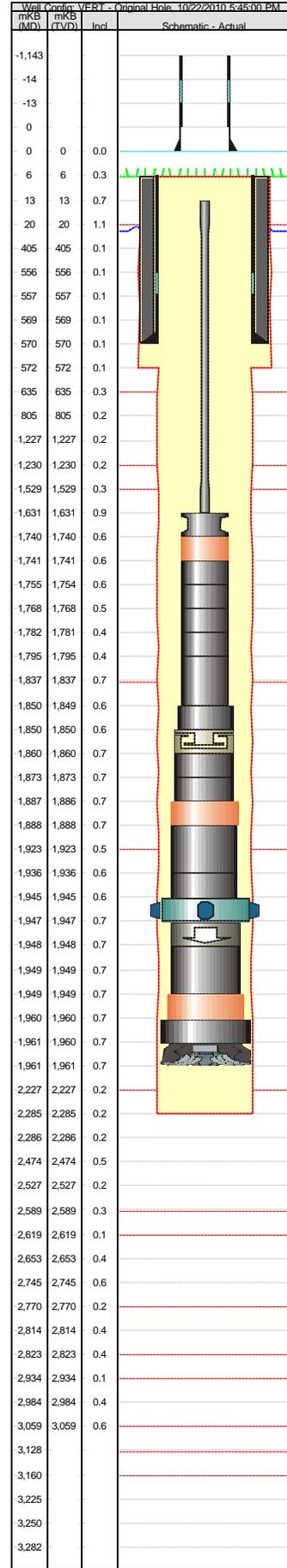
Drilling Parameters											
Wellbore	Start Date	End Date	Drill Time (hrs)	Start (mKB)	End (mKB)	Int Depth (m)	Int ROP (m/hr)	WOB (daN)	RPM (rpm)	Q (flow) (m³/min)	SPP (kPa)
Original Hole	10/27/2010 00:00	10/27/2010 09:15	9.25	2,086.00	2,101.00	15.00	1.6	18	80		24,600
Original Hole	10/27/2010 12:00	10/27/2010 21:30	9.50	2,101.00	2,124.00	23.00	2.4	21	80		22,800
Original Hole	10/28/2010 00:00	10/28/2010 11:30	11.50	2,124.00	2,145.00	21.00	1.8	25	80		24,300
Original Hole	10/28/2010 12:00	10/28/2010 21:15	9.25	2,145.00	2,163.00	18.00	1.9	25	80		24,000
Original Hole	10/29/2010 00:00	10/29/2010 11:30	11.50	2,163.00	2,183.00	20.00	1.7	25	70		20,000
Original Hole	10/29/2010 12:00	10/29/2010 22:00	10.00	2,183.00	2,203.00	20.00	2.0	25	75		20,500
Original Hole	10/30/2010 00:00	10/30/2010 10:30	10.50	2,203.00	2,213.00	10.00	1.0	25	72		20,700
Original Hole	10/30/2010 12:00	10/30/2010 16:15	4.25	2,213.00	2,223.00	10.00	2.4	26	72		20,600

Mud Checks									
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)	
10/27/2010	2,109.00	KLA SHIELD	1250.0	30.0	13.000	9.0	0.3	10.0	
10/28/2010	2,152.00	KLA SHIELD	1250.0	32.0	11.000	9.0	0.3	10.0	
10/29/2010	2,191.00	KLA SHIELD	1250.0	32.0	11.000	9.0	0.3	10.0	
10/30/2010	2,223.00	KLA SHIELD	1250.0	30.0	12.000	9.0	0.3	10.0	

Well Name: NALCOR ET.AL FINNEGAN #1

Well Contig: VER11 - Original Hole - 10/25/2010 8:50:00 AM		BHA #18, Drilling Assembly														
mKB (MD)	TVD	Inc	Schematic - Actual		Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)							
-1.143					1,961.00	2,086.00	125.00	70.50	1.8							
-14					Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull					
-13					17	0.33	SMITH	GFI23B	PP3525	5-1-7-	2-2-WT-A-E-0.00-NO-HR					
0					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)				
0	0	0.0				2,071.43	28	10	80	70						
6	6	0.3			Comment											
15	15	0.8			Drill String Components											
20	20	1.1			Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)	
28	28	1.1			1	Drill pipe - Singles								13.71	2,071....	
405	405	0.1			63	Drill pipe - Stands								1,727....	2,057....	
566	566	0.1			8	HWDP(4.5 IN)	127.0							109.04	329.78	
569	569	0.1			1	X/O	165.0							0.62	220.74	
570	570	0.1			1	DC (6.50 IN)	165.0							13.64	220.12	
572	572	0.1			1	DC (6.50 IN)	165.0							13.63	206.48	
635	635	0.3			1	DC (6.50 IN)	165.0							13.63	192.85	
805	805	0.2			1	DC (6.50 IN)	164.0							13.55	179.22	
1,227	1,227	0.2			4	DC (6.50 IN)	165.0							54.30	165.67	
1,230	1,230	0.2			1	BELL SUB	194.0							0.62	111.37	
1,529	1,529	0.3			1	JARS-HYD/MECH	207.0							9.58	110.75	
1,756	1,756	0.7			1	DC (8.00 IN)	204.0							13.35	101.17	
1,837	1,837	0.7			1	DC (8.00 IN)	203.0							13.39	87.82	
1,865	1,865	0.7			1	X/O	232.0							1.62	74.43	
1,866	1,866	0.7			5	DC (9.00 IN)	227.0							47.62	72.81	
1,880	1,879	0.5			1	DC (9.00 IN)	226.0							9.49	25.19	
1,893	1,893	0.8			1	STAB/REAMR-3 PT	311.2							1.89	15.70	
1,907	1,907	0.6			1	FLOAT SUB	239.0							0.68	13.81	
1,920	1,920	0.5			1	SUB - FILTER	242.0							1.53	13.13	
1,923	1,923	0.5			1	VERTITRAK	260.0							10.98	11.60	
1,949	1,949	0.7			1	DOG SUB	311.0							0.29	0.62	
1,975	1,974	0.6			Drilling Parameters											
1,975	1,975	0.6			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)
1,985	1,985	0.6			Original Hole	10/23/2010 00:00	10/23/2010 05:15	5.25	1,961.00	1,968.00	7.00	1.3	10	70		22,000
1,998	1,998	0.6			Original Hole	10/23/2010 12:00	10/23/2010 23:15	11.25	1,968.00	1,988.00	20.00	1.8	26	70		20,500
2,012	2,011	0.5			Original Hole	10/24/2010 00:00	10/24/2010 11:30	11.50	1,988.00	2,009.00	21.00	1.8	28	70		20,500
2,013	2,013	0.5			Original Hole	10/24/2010 12:00	10/24/2010 23:30	11.50	2,009.00	2,031.00	22.00	1.9	28	70		21,500
2,061	2,061	0.5			Original Hole	10/25/2010 00:00	10/25/2010 11:15	11.25	2,031.00	2,053.00	22.00	2.0	28	72		21,700
2,070	2,070	0.4			Original Hole	10/25/2010 12:00	10/25/2010 23:15	11.25	2,053.00	2,069.00	16.00	1.4	25	73		21,800
2,072	2,072	0.4			Original Hole	10/26/2010 00:00	10/26/2010 08:30	8.50	2,069.00	2,086.00	17.00	2.0	24	80		24,750
2,073	2,073	0.4			Mud Checks											
2,074	2,074	0.4			Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)			
2,085	2,085	0.3			10/23/2010	1,975.00	KLA SHIELD	1250.0	30.0	13.000	9.0	0.3	9.8			
2,086	2,085	0.3			10/24/2010	2,016.00	KLA SHIELD	1245.0	32.0	14.000	9.0	0.3	9.5			
2,086	2,086	0.4			10/25/2010	2,060.00	KLA SHIELD	1250.0	34.0	14.000	9.0	0.3	9.8			
2,227	2,227	0.2														
2,285	2,285	0.2														
2,286	2,286	0.2														
2,474	2,474	0.5														
2,527	2,527	0.2														
2,589	2,589	0.3														
2,619	2,619	0.1														
2,653	2,653	0.4														
2,745	2,745	0.6														
2,770	2,770	0.2														
2,814	2,814	0.4														
2,823	2,823	0.4														
2,934	2,934	0.1														
2,984	2,984	0.4														
3,059	3,059	0.6														
3,128																
3,160																
3,225																
3,250																
3,282																

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #17, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,939.00		1,961.00		22.00		15.00		1.5	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
16	0.37	SMITH	MI716	JD1237		---		8-8-WT-A-X-0.00-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)	
	1,948.10	25	12	128	105				
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	1,948....
59	Drill pipe - Stands								1,618....	1,948....
8	HWDP(4.5 IN)	127.0							109.04	329.83
1	X/O	165.0							0.62	220.79
1	DC (6.50 IN)	165.0							13.64	220.17
1	DC (6.50 IN)	165.0							13.63	206.53
1	DC (6.50 IN)	165.0							13.63	192.90
1	DC (6.50 IN)	164.0							13.55	179.27
4	DC (6.50 IN)	165.0							54.30	165.72
1	BELL SUB	194.0							0.62	111.42
1	JARS-HYD/MECH	207.0							9.58	110.80
1	DC (8.00 IN)	204.0							13.35	101.22
1	DC (8.00 IN)	203.0							13.39	87.87
1	X/O	232.0							1.62	74.48
5	DC (9.00 IN)	227.0							47.62	72.86
1	DC (9.00 IN)	226.0							9.49	25.24
1	STAB/REAMR-3 PT	311.2							1.89	15.75
1	FLOAT SUB	239.0							0.68	13.86
1	SUB - FILTER	242.0							1.53	13.18
1	VERTITRAK	260.0							10.98	11.65
1	DOG SUB	311.0							0.30	0.67

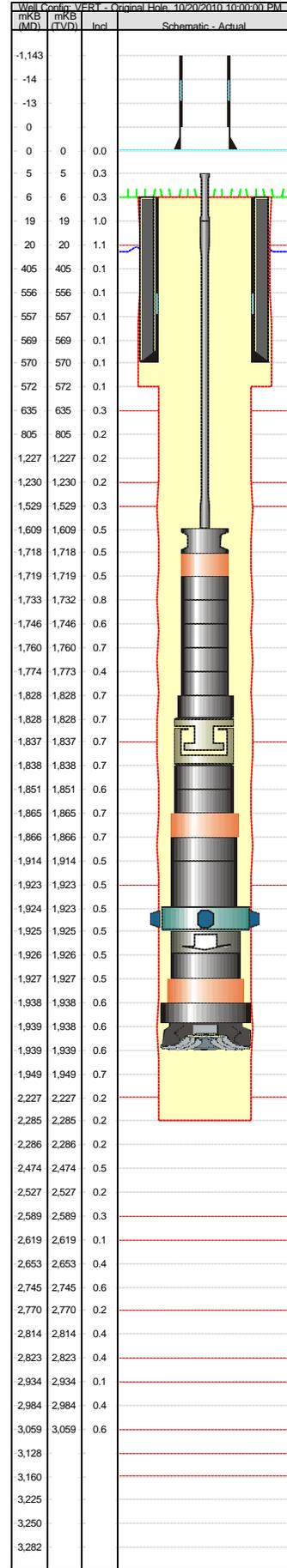
Drilling Parameters

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	10/21/2010 12:00	10/21/2010 12:45	0.75	1,939.00	1,942.00	3.00	4.0	12	120		27,200
Original Hole	10/22/2010 00:00	10/22/2010 08:30	8.50	1,942.00	1,954.00	12.00	1.4	25	128		25,000
Original Hole	10/22/2010 12:00	10/22/2010 17:45	5.75	1,954.00	1,961.00	7.00	1.2	20	105		21,000

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
10/22/2010	1,958.00	KLA SHIELD	1250.0	34.0	14.000	9.0	0.3	9.8

Well Name: NALCOR ET.AL FINNEGAN #1



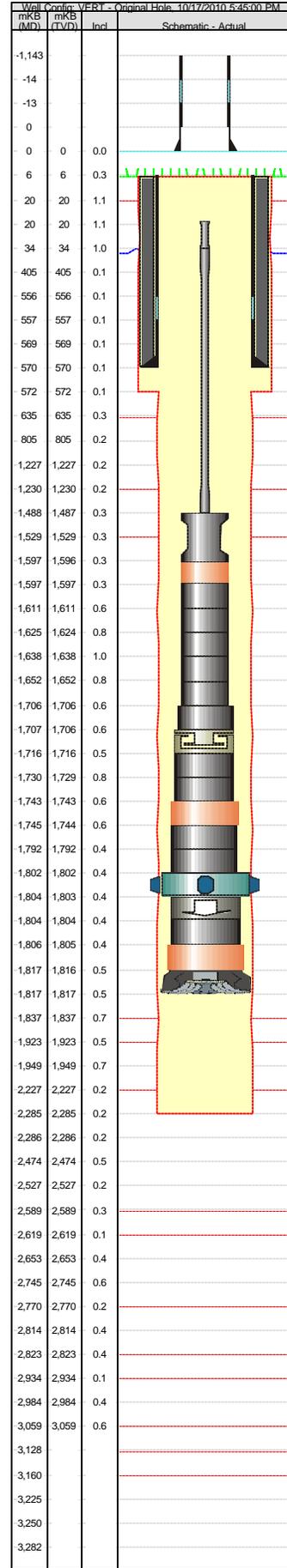
BHA #16, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,817.00		1,939.00		122.00		59.00		2.1	
Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull			
15	0.34	SMITH	GF23B	PP7440	5-1-7-	2-2-WT-H-E-0.00-BT-HR			
String 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)		
	1,934.15	25	21	75	72	2.900	2.900		
Comment									
2 X 11.1 , 2 X 14.3									

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	1,934....
58	Drill pipe - Stands								1,590....	1,920....
8	HWDP(4.5 IN)	127.0							109.04	329.59
1	X/O	165.0							0.62	220.55
1	DC (6.50 IN)	165.0							13.64	219.93
1	DC (6.50 IN)	165.0							13.63	206.29
1	DC (6.50 IN)	165.0							13.63	192.66
1	DC (6.50 IN)	164.0							13.55	179.03
4	DC (6.50 IN)	165.0							54.30	165.48
1	BELL SUB	194.0							0.62	111.18
1	JARS-HYD/MECH	207.0							9.58	110.56
1	DC (8.00 IN)	204.0							13.35	100.98
1	DC (8.00 IN)	203.0							13.39	87.63
1	X/O	232.0							1.62	74.24
5	DC (9.00 IN)	227.0							47.62	72.62
1	DC (9.00 IN)	226.0							9.49	25.00
1	STAB/REAMR-3 PT	311.2							1.69	15.51
1	FLOAT SUB	239.0							0.68	13.82
1	SUB - FILTER	242.0							1.53	13.14
1	VERTITRAK	260.0							10.98	11.61
1	DOG SUB	311.0							0.29	0.63

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	10/18/2010 00:00	10/18/2010 07:15	7.25	1,817.00	1,833.00	16.00	2.2	22	75	2,900	22,800
Original Hole	10/18/2010 12:00	10/18/2010 21:00	9.00	1,833.00	1,853.00	20.00	2.2	21	73	2,900	21,400
Original Hole	10/19/2010 00:00	10/19/2010 11:00	11.00	1,853.00	1,879.00	26.00	2.4	25	73	2,900	21,300
Original Hole	10/19/2010 12:00	10/19/2010 23:00	11.00	1,879.00	1,899.00	20.00	1.8	22	72	2,900	21,000
Original Hole	10/20/2010 00:00	10/20/2010 10:45	10.75	1,899.00	1,921.00	22.00	2.0	25	75		21,400
Original Hole	10/20/2010 12:00	10/20/2010 22:00	10.00	1,921.00	1,939.00	18.00	1.8	25	75		21,500

Mud Checks									
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)	
10/18/2010	1,842.00	KLA SHIELD	1245.0	30.0	13,000	9.0	0.5	9.0	
10/19/2010	1,886.00	KLA SHIELD	1245.0	30.0	10,000	9.0	0.5	9.3	

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #15, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,772.00		1,817.00		45.00		31.75		1.4	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
14	0.34	SMITH	GF30B	PP3318		-3-7-		1-1-WT-A-E-1.00-ER-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)		
	1,796.83	30	25	65	65	2,600.000	2,600.000		
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								13.71	1,796....
53	Drill pipe - Stands								1,453....	1,783....
8	HWDP(4.5 IN)	127.0							109.04	329.30
1	X/O	165.0							0.62	220.26
1	DC (6.50 IN)	165.0							13.64	219.64
1	DC (6.50 IN)	165.0							13.63	206.00
1	DC (6.50 IN)	165.0							13.63	192.37
1	DC (6.50 IN)	164.0							13.55	178.74
4	DC (6.50 IN)	165.0							54.30	165.19
1	BELL SUB	194.0							0.62	110.89
1	JARS-HYD/MECH	207.0							9.58	110.27
1	DC (8.00 IN)	204.0							13.35	100.69
1	DC (8.00 IN)	203.0							13.39	87.34
1	X/O	232.0							1.62	73.95
5	DC (9.00 IN)	227.0							47.62	72.33
1	DC (9.00 IN)	226.0							9.49	24.71
1	STAB/REAMR-3 PT	311.2							1.69	15.22
1	FLOAT SUB	239.0							0.68	13.53
1	SUB - FILTER	242.0							1.53	12.85
1	VERTITRAK	260.0							10.98	11.32

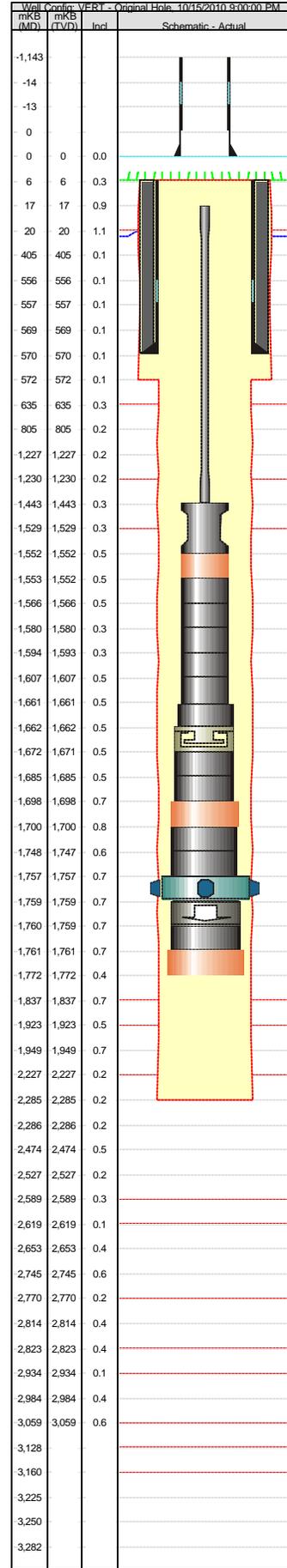
Drilling Parameters

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	10/16/2010 03:00	10/16/2010 06:15	3.25	1,772.00	1,777.00	5.00	1.5	25	65	2,60...	17,500
Original Hole	10/16/2010 12:00	10/16/2010 23:15	11.25	1,777.00	1,793.00	16.00	1.4	27	65	2,60...	17,600
Original Hole	10/17/2010 00:00	10/17/2010 11:30	11.50	1,793.00	1,802.00	9.00	0.8	27	65		17,300
Original Hole	10/17/2010 12:00	10/17/2010 17:45	5.75	1,802.00	1,817.00	15.00	2.6	30	65		17,200

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
10/16/2010	1,782.00	KLA SHIELD	1250.0	32.0	13.000	9.1	0.5	9.5
10/17/2010	1,816.00	KLA SHIELD	1250.0	34.0	13.000	9.0	0.5	9.0

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #14, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,664.00		1,772.00		108.00		53.75		2.0	
Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull			
13		SMITH	GFI23B	PP3524	5-1-7-	3-7-BC-2-E-1.00-FC-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)		
	1,755.39	30	25	80	65	2.500	2.500		
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	1,755....
52	Drill pipe - Stands								1,426....	1,755....
8	HWDP(4.5 IN)	127.0							109.04	328.96
1	X/O	165.0							0.62	219.92
1	DC (6.50 IN)	165.0							13.64	219.30
1	DC (6.50 IN)	165.0							13.63	205.66
1	DC (6.50 IN)	165.0							13.63	192.03
1	DC (6.50 IN)	164.0							13.55	178.40
4	DC (6.50 IN)	165.0							54.30	164.85
1	BELL SUB	194.0							0.62	110.55
1	JARS-HYD/MECH	207.0							9.58	109.93
1	DC (8.00 IN)	204.0							13.35	100.35
1	DC (8.00 IN)	203.0							13.39	87.00
1	X/O	232.0							1.62	73.61
5	DC (9.00 IN)	227.0							47.62	71.99
1	DC (9.00 IN)	226.0							9.49	24.37
1	STAB/REAMR-3 PT	311.2							1.69	14.88
1	FLOAT SUB	239.0							0.68	13.19
1	SUB - FILTER	242.0							1.53	12.51
1	VERTITRAK	260.0							10.98	10.98

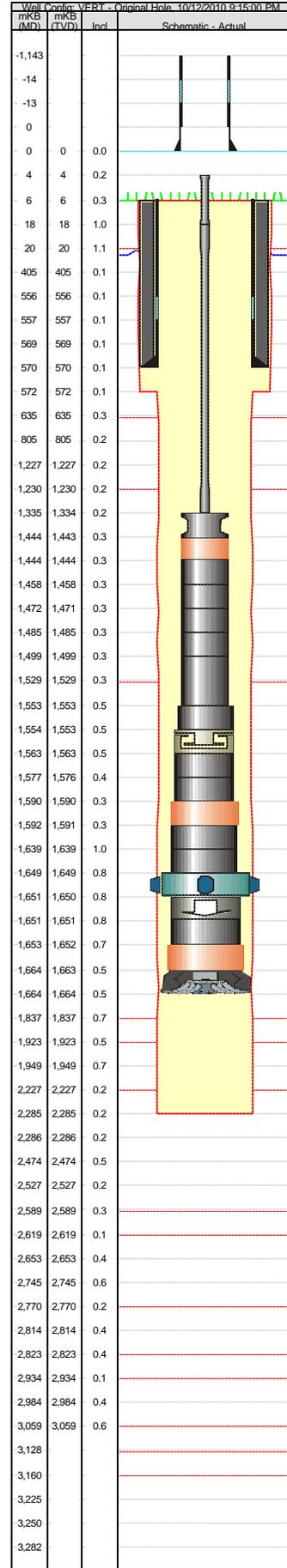
Drilling Parameters

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	10/13/2010 00:00	10/13/2010 00:45	0.75	1,664.00	1,665.00	1.00	1.3	25	80	2,500	0
Original Hole	10/13/2010 12:00	10/13/2010 22:15	10.25	1,665.00	1,689.00	24.00	2.3	30	65	2,500	17,700
Original Hole	10/14/2010 00:00	10/14/2010 11:00	11.00	1,689.00	1,705.00	16.00	1.5	30	65	2,500	17,900
Original Hole	10/14/2010 12:00	10/14/2010 23:15	11.25	1,705.00	1,733.00	28.00	2.5	27	65	2,500	17,300
Original Hole	10/15/2010 00:00	10/15/2010 11:30	11.50	1,733.00	1,749.00	16.00	1.4	27	65	2,500	17,500
Original Hole	10/15/2010 12:00	10/15/2010 21:00	9.00	1,749.00	1,772.00	23.00	2.6	25	65	2,500	17,500

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
10/13/2010	1,664.00	KLA SHIELD	1250.0	35.0	13,000	9.1	0.3	9.5
10/14/2010	1,719.00	KLA SHIELD	1250.0	32.0	12,000	9.0	0.3	9.5
10/15/2010	1,764.00	KLA SHIELD	1250.0	36.0	13,000	9.0	0.3	9.5

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #13, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,600.00		1,664.00		64.00		21.75		2.9	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
12	0.34	SMITH	MSI616HEPX	JY4796		---		2-3-CT-A-X-0.00-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)		
	1,659.72	24	18	147	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)
1	Drill pipe - Singles								13.70	1,659....
48	Drill pipe - Stands								1,316....	1,646....
8	HWDP(4.5 IN)	127.0							109.04	329.30
1	X/O	165.0							0.62	220.26
1	DC (6.50 IN)	165.0							13.64	219.64
1	DC (6.50 IN)	165.0							13.63	206.00
1	DC (6.50 IN)	165.0							13.63	192.37
1	DC (6.50 IN)	164.0							13.55	178.74
4	DC (6.50 IN)	165.0							54.30	165.19
1	BELL SUB	194.0							0.62	110.89
1	JARS-HYD/MECH	207.0							9.58	110.27
1	DC (8.00 IN)	204.0							13.35	100.69
1	DC (8.00 IN)	203.0							13.39	87.34
1	X/O	232.0							1.62	73.95
5	DC (9.00 IN)	227.0							47.62	72.33
1	DC (9.00 IN)	226.0							9.49	24.71
1	STAB/REAMR-3 PT	311.2							1.69	15.22
1	FLOAT SUB	239.0							0.68	13.53
1	SUB - FILTER	242.0							1.53	12.85
1	VERTITRAK	260.0							10.98	11.32

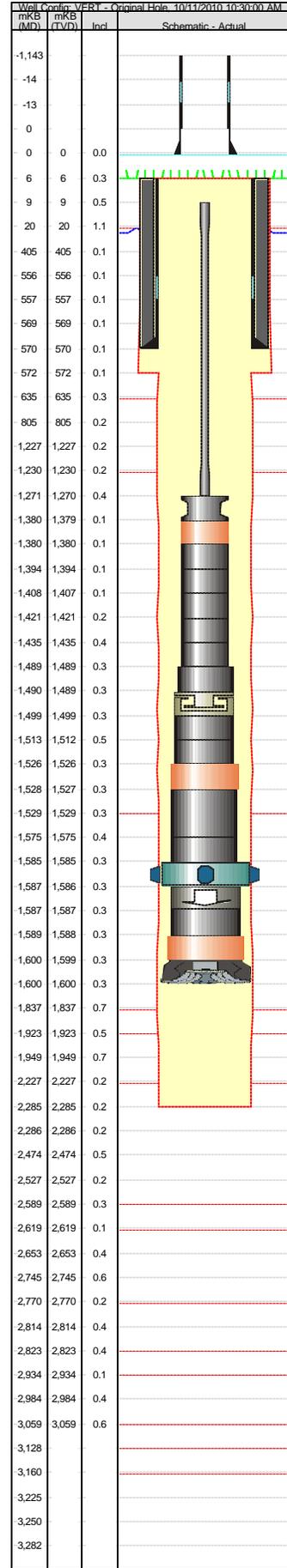
Drilling Parameters

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	10/11/2010 13:00	10/11/2010 14:00	1.00	1,600.00	1,607.00	7.00	7.0	18	80		0
Original Hole	10/12/2010 00:00	10/12/2010 11:30	11.50	1,607.00	1,651.00	44.00	3.8	20	147		27,000
Original Hole	10/12/2010 12:00	10/12/2010 21:15	9.25	1,651.00	1,664.00	13.00	1.4	24	107		17,700

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
10/11/2010	1,600.00	KLA SHIELD	1250.0	33.0	13.000	9.0	0.3	9.5
10/12/2010	1,657.00	KLA SHIELD	1250.0	35.0	13.000	9.2	0.3	9.5

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #12, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,522.00		1,600.00		78.00		33.50		2.3	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
11	0.34	SMITH	GF128B	PR1625		5-2-7-		2-2-WT-A-E-0.00-ER-FM	
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)		
	1,591.16	25	13	76	75				
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	1,591....
46	Drill pipe - Stands								1,261....	1,591....
8	HWDP(4.5 IN)	127.0							109.04	329.30
1	X/O	165.0							0.62	220.26
1	DC (6.50 IN)	165.0							13.64	219.64
1	DC (6.50 IN)	165.0							13.63	206.00
1	DC (6.50 IN)	165.0							13.63	192.37
1	DC (6.50 IN)	164.0							13.55	178.74
4	DC (6.50 IN)	165.0							54.30	165.19
1	BELL SUB	194.0							0.62	110.89
1	JARS-HYD/MECH	207.0							9.58	110.27
1	DC (8.00 IN)	204.0							13.35	100.69
1	DC (8.00 IN)	203.0							13.39	87.34
1	X/O	232.0							1.62	73.95
5	DC (9.00 IN)	227.0							47.62	72.33
1	DC (9.00 IN)	226.0							9.49	24.71
1	STAB/REAMR-3 PT	311.2							1.69	15.22
1	FLOAT SUB	239.0							0.68	13.53
1	SUB - FILTER	242.0							1.53	12.85
1	VERTITRAK	260.0							10.98	11.32

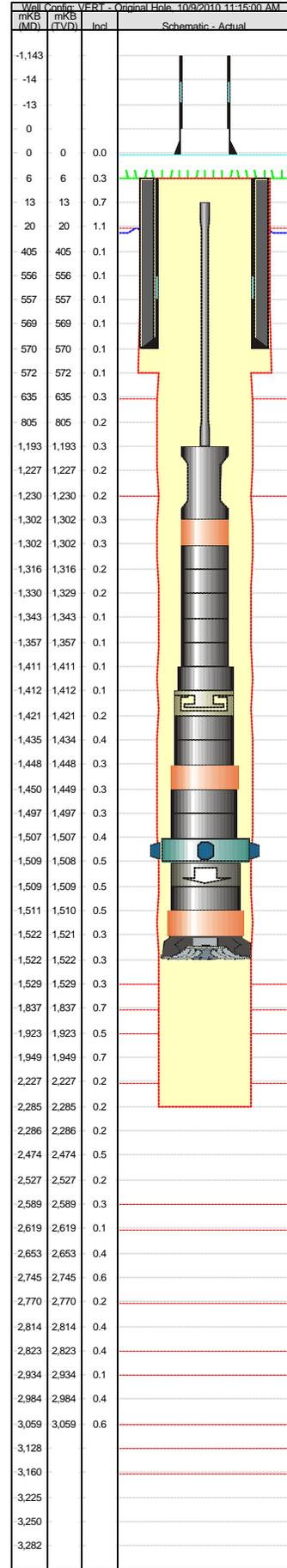
Drilling Parameters

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	10/10/2010 10:00:00	10/10/2010 11:30:00	11.50	1,522.00	1,540.00	18.00	1.6	13	75		21,400
Original Hole	10/10/2010 12:00:00	10/10/2010 23:30:00	11.50	1,540.00	1,571.00	31.00	2.7	24	76		21,400
Original Hole	10/11/2010 00:00:00	10/11/2010 10:30:00	10.50	1,571.00	1,600.00	29.00	2.8	25	75		21,754

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
10/10/2010	1,550.00	KLA SHIELD	1250.0	34.0	13.500	9.0		9.5

Well Name: NALCOR ET.AL FINNEGAN #1



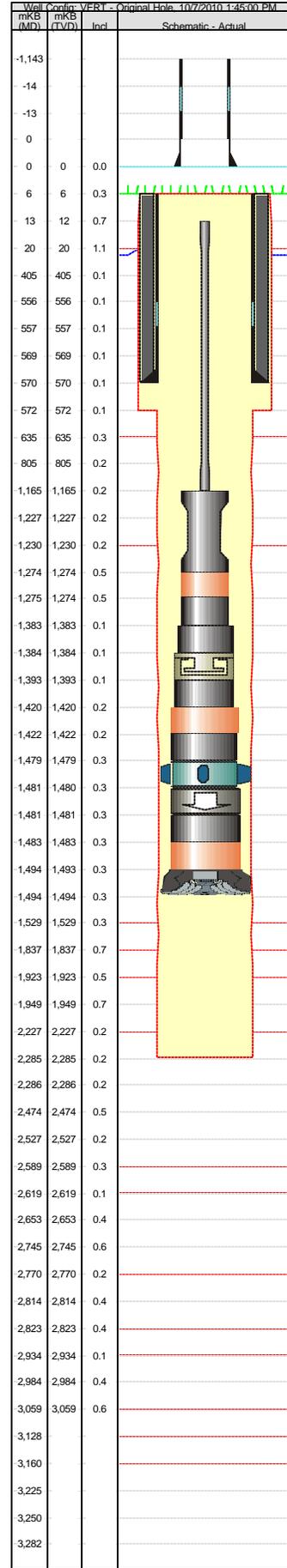
BHA #11, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,494.00		1,522.00		28.00		30.00		0.9	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
10	0.29	REED		220112		---		8-8-BT-A-X-0.00-WT-PR	
String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)		
	1,508.95	21	16	148	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	1,508....
43	Drill pipe - Stands								1,179....	1,508....
8	HWDP(4.5 IN)	127.0							109.04	329.25
1	X/O	165.0							0.62	220.21
1	DC (6.50 IN)	165.0							13.64	219.59
1	DC (6.50 IN)	165.0							13.63	205.95
1	DC (6.50 IN)	165.0							13.63	192.32
1	DC (6.50 IN)	164.0							13.55	178.69
4	DC (6.50 IN)	165.0							54.30	165.14
1	BELL SUB	194.0							0.62	110.84
1	JARS-HYD/MECH	207.0							9.58	110.22
1	DC (8.00 IN)	204.0							13.35	100.64
1	DC (8.00 IN)	203.0							13.39	87.29
1	X/O	232.0							1.62	73.90
5	DC (9.00 IN)	227.0							47.62	72.28
1	DC (9.00 IN)	226.0							9.49	24.66
1	STAB/REAMR-3 PT	311.2							1.69	15.17
1	FLOAT SUB	239.0							0.68	13.48
1	SUB - FILTER	242.0							1.53	12.80
1	VERTITRAK	260.0							10.98	11.27

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	10/8/2010 00:00	10/8/2010 07:00	7.00	1,494.00	1,501.00	7.00	1.0	16	148		25,700
Original Hole	10/8/2010 12:00	10/8/2010 23:45	11.75	1,501.00	1,515.00	14.00	1.2	21	148		26,800
Original Hole	10/9/2010 00:00	10/9/2010 11:15	11.25	1,515.00	1,522.00	7.00	0.6	17	140		18,600

Mud Checks									
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)	
10/8/2010	1,504.00	KLA SHIELD	1250.0	29.0	13.500	9.1	0.3	10.0	

Well Name: NALCOR ET.AL FINNEGAN #1



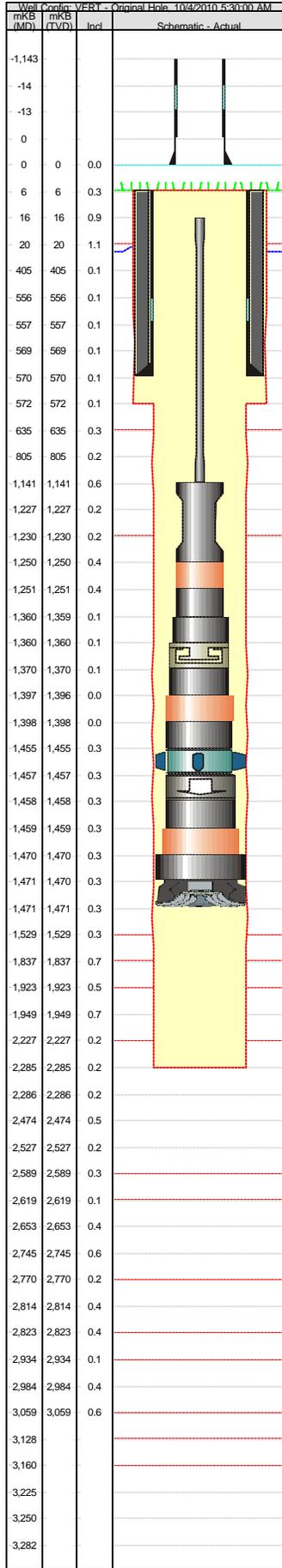
BHA #10, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,471.00		1,494.00		23.00		33.50		0.7	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
9	0.29	SMITH	MSI816	JX1725		---		2-2-WT-A-XQ-1.00-CT-PR	
String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)		
	1,481.49	18	15	147	114				
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	1,481....
42	Drill pipe - Stands								1,152....	1,481....
8	HWDP(4.5 IN)	127.0							109.04	329.20
1	X/O	165.0							0.62	220.16
8	DC (6.50 IN)	165.0							108.75	219.54
1	BELL SUB	194.0							0.62	110.79
1	JARS-HYD/MECH	207.0							9.58	110.17
2	DC (8.00 IN)	203.0							26.74	100.59
1	X/O	232.0							1.62	73.85
6	DC (9.00 IN)	227.0							57.11	72.23
1	STAB/REAMR-3 PT	228.0							1.69	15.12
1	FLOAT SUB	239.0							0.68	13.43
1	SUB - FILTER	242.0							1.53	12.75
1	VERTITRAK	241.0							10.93	11.22

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	10/6/2010 00:00	10/6/2010 09:15	9.25	1,471.00	1,479.00	8.00	0.9	15	147		26,500
Original Hole	10/6/2010 12:00	10/6/2010 23:15	11.25	1,479.00	1,487.00	8.00	0.7	15	147		24,100
Original Hole	10/7/2010 00:00	10/7/2010 11:15	11.25	1,487.00	1,493.00	6.00	0.5	18	145		24,100
Original Hole	10/7/2010 12:00	10/7/2010 13:45	1.75	1,493.00	1,494.00	1.00	0.6	18	114		18,000

Mud Checks								
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
10/6/2010	1,475.00	KLA SHIELD	1235.0	28.0	13,500	8.4	0.3	9.5

Well Name: NALCOR ET.AL FINNEGAN #1



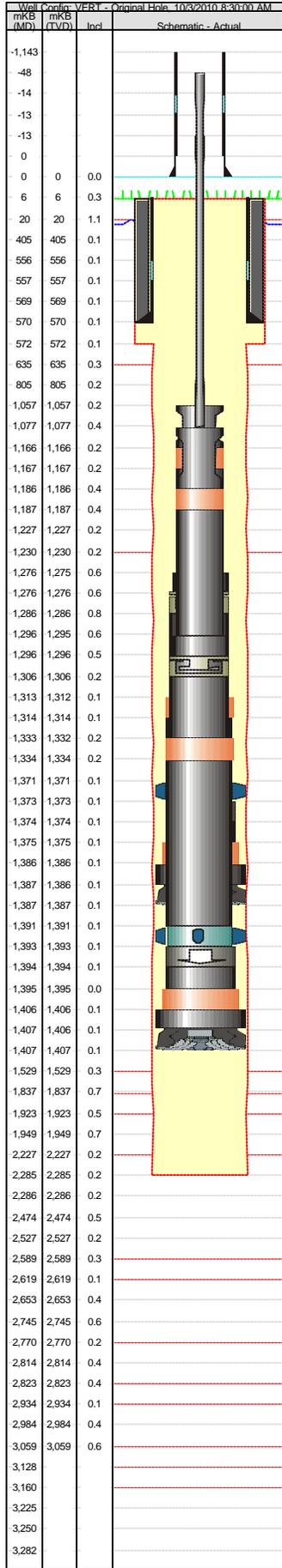
BHA #9, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,407.00		1,471.00		64.00		19.50		3.3	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
8	0.32	SMITH	MSI816	JD7643		---		1-1-CT-T-X-0.00-CD-PP	
String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)		Q (min) (m³/min)	
	1,454.65	15	15	123	117				
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	1,454....
41	Drill pipe - Stands								1,124....	1,454....
8	HWDP(4.5 IN)	127.0							109.04	329.78
1	X/O	165.0							0.62	220.74
8	DC (6.50 IN)	165.0							108.75	220.12
1	BELL SUB	194.0							0.62	111.37
1	JARS-HYD/MECH	207.0							9.58	110.75
2	DC (8.00 IN)	203.0							26.74	101.17
1	X/O	232.0							1.62	74.43
6	DC (9.00 IN)	227.0							57.11	72.81
1	STAB/REAMR-3 PT	228.0							1.89	15.70
1	FLOAT SUB	239.0							0.68	13.81
1	SUB - FILTER	242.0							1.53	13.13
1	VERTITRAK	260.0							10.99	11.60
1	DOG SUB	311.0							0.29	0.61

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	10/3/2010 00:00	10/3/2010 06:45	6.75	1,407.00	1,438.00	31.00	4.6	15	117		24,000
Original Hole	10/3/2010 12:00	10/3/2010 19:15	7.25	1,438.00	1,460.00	22.00	3.0	15	118		250,...
Original Hole	10/4/2010 00:00	10/4/2010 05:30	5.50	1,460.00	1,471.00	11.00	2.0	15	123		26,500

Mud Checks								
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
10/3/2010	1,439.00	KLA SHIELD	1250.0	31.0	15.500	8.6		9.5

Well Name: NALCOR ET.AL FINNEGAN #1



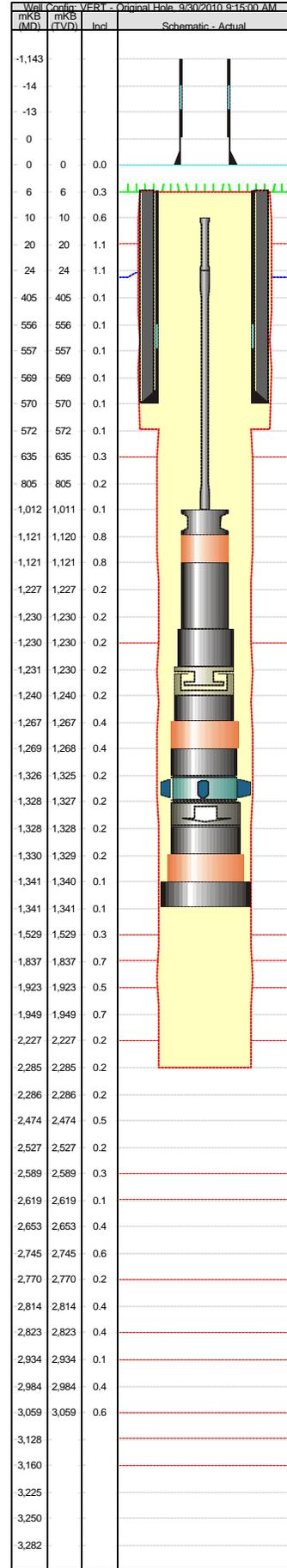
BHA #8, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,341.00		1,406.00		65.00		46.50		1.4	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
7	0.30	REED	M4528	CK118		6-3-7-		1-1-FC-A-E-0.00-FC-PR	
String Wt (daN)	String Length (m)	WOB (max) (daN)	WOB (min) (daN)	RPM (max) (rpm)	RPM (min) (rpm)	Q (max) (m³/min)	Q (min) (m³/min)		
	1,399.75	30	27	100	100				
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	1,399....
39	Drill pipe - Stands								1,069....	1,399....
8	HWDP(4.5 IN)	127.0							109.04	329.76
1	X/O	165.0							0.62	220.72
8	DC (6.50 IN)	165.0							108.75	220.10
1	BELL SUB	194.0							0.62	111.35
1	JARS-HYD/MECH	207.0							9.58	110.73
2	DC (8.00 IN)	203.0							26.74	101.15
1	X/O	232.0							1.62	74.41
6	DC (9.00 IN)	227.0							57.11	72.79
1	STAB/REAMR-3 PT	228.0							1.89	15.68
1	FLOAT SUB	239.0							0.68	13.79
1	SUB - FILTER	242.0							1.53	13.11
1	VERTITRAK	260.0							10.99	11.58
1	DOG SUB	311.0							0.29	0.59

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	9/30/2010 12:00	9/30/2010 13:30	1.50	1,341.00	1,342.00	1.00	0.7	27	100		11,800
Original Hole	10/1/2010 00:00	10/1/2010 11:15	11.25	1,342.00	1,366.00	24.00	2.1	27	100		11,600
Original Hole	10/2/2010 00:00	10/2/2010 11:15	11.25	1,387.00	1,406.00	19.00	1.7	28	100		12,000
Original Hole	10/2/2010 10:00	10/3/2010 08:30	22.50	1,366.00	1,387.00	21.00	0.9	30	100		11,800

Mud Checks								
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
9/30/2010	1,341.00	KLA SHIELD	1250.0	28.0	15.000	8.7		11.0
10/1/2010	1,373.00	KLA SHIELD	1250.0	29.0	14.500	8.9		10.0
10/2/2010	1,407.00	KLA SHIELD	1250.0	30.0	17.500	8.6		10.0

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #7, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,290.00		1,341.00		21.00		16.00		1.3	
Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull			
6		SMITH	GFI35V0D1VCPS	PP3324	5-1-7-	3-3-BT-A-7-1.00-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)		
	1,330.88	32	18	115	115				
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								13.72	1,330....
36	Drill pipe - Stands								987.70	1,317....
8	HWDP(4.5 IN)	127.0							109.04	329.46
1	X/O	165.0							0.62	220.42
8	DC (6.50 IN)	165.0							108.75	219.80
1	BELL SUB	194.0							0.62	111.05
1	JARS-HYD/MECH	207.0							9.58	110.43
2	DC (8.00 IN)	203.0							26.74	100.85
1	X/O	232.0							1.62	74.11
6	DC (9.00 IN)	227.0							57.11	72.49
1	STAB/REAMR-3 PT	228.0							1.89	15.38
1	FLOAT SUB	239.0							0.68	13.49
1	SUB - FILTER	242.0							1.53	12.81
1	VERTITRAK	260.0							10.99	11.28
1	DOG SUB	311.0							0.29	0.29

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	9/29/2010 00:00	9/29/2010 06:45	6.75	1,290.00	1,301.00	11.00	1.6	18	115		12,700
Original Hole	9/30/2010 00:00	9/30/2010 09:15	9.25	1,331.00	1,341.00	10.00	1.1	32	115		13,800

Mud Checks									
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)	
9/29/2010	1,309.00	KLA SHIELD	1250.0	29.0	15.500	8.8		11.0	

Well Name: NALCOR ET.AL FINNEGAN #1

mKB (MD)	mKB (TVD)	Inc	Schematic - Actual
-1.143			
-14			
-13			
0			
0	0	0.0	
6	6	0.3	
7	7	0.4	
20	20	1.1	
21	21	1.1	
405	405	0.1	
556	556	0.1	
557	557	0.1	
569	569	0.1	
570	570	0.1	
572	572	0.1	
635	635	0.3	
805	805	0.2	
954	953	0.1	
1,063	1,062	0.2	
1,063	1,063	0.2	
1,172	1,172	0.2	
1,173	1,172	0.2	
1,182	1,182	0.4	
1,209	1,209	0.2	
1,210	1,210	0.2	
1,227	1,227	0.2	
1,230	1,230	0.2	
1,268	1,267	0.4	
1,269	1,269	0.4	
1,270	1,270	0.4	
1,271	1,271	0.4	
1,282	1,282	0.8	
1,283	1,282	0.8	
1,283	1,283	0.8	
1,529	1,529	0.3	
1,837	1,837	0.7	
1,923	1,923	0.5	
1,949	1,949	0.7	
2,227	2,227	0.2	
2,285	2,285	0.2	
2,286	2,286	0.2	
2,474	2,474	0.5	
2,527	2,527	0.2	
2,589	2,589	0.3	
2,619	2,619	0.1	
2,653	2,653	0.4	
2,745	2,745	0.6	
2,770	2,770	0.2	
2,814	2,814	0.4	
2,823	2,823	0.4	
2,934	2,934	0.1	
2,984	2,984	0.4	
3,059	3,059	0.6	
3,128			
3,160			
3,225			
3,250			
3,282			

BHA #6, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,225.00		1,283.00		58.00		20.50		2.8	
Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull			
5	0.28	REED	MSF 813S	129721	S-4-3-	3-4-BT-S-X-1.00-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)		
	1,276.13	27	21	140	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)
1	Drill pipe - Singles								13.71	1,276...
34	Drill pipe - Stands								932.88	1,262...
8	HWDP(4.5 IN)	127.0							109.04	329.54
1	X/O	165.0							0.62	220.50
8	DC (6.50 IN)	165.0							108.75	219.88
1	BELL SUB	194.0							0.62	111.13
1	JARS-HYD/MECH	207.0							9.58	110.51
2	DC (8.00 IN)	203.0							26.74	100.93
1	X/O	232.0							1.62	74.19
6	DC (9.00 IN)	227.0							57.11	72.57
1	STAB/REAMR-3 PT	228.0							1.69	15.46
1	FLOAT SUB	239.0							0.68	13.77
1	SUB - FILTER	242.0							1.53	13.09
1	VERTITRAK	260.0							10.99	11.56
1	DOG SUB	311.0							0.29	0.57

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	9/27/2010 12:00	9/27/2010 22:15	10.25	1,225.00	1,259.00	34.00	3.3	21	140		19,500
Original Hole	9/28/2010 00:00	9/28/2010 10:15	10.25	1,259.00	1,283.00	24.00	2.3	27	120		17,500

Mud Checks									
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)	
9/27/2010	1,232.00	KLA SHIELD	1255.0	24.0	16,000	9.0	0.3	11.0	

Well Name: NALCOR ET.AL FINNEGAN #1

BHA #5, <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)		
1,220.52									
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	1,220....
32	Drill pipe - Stands								878.09	1,206....
8	HWDP(4.5 IN)	127.0							109.04	328.72
1	X/O	165.0							0.62	219.68
8	DC (6.50 IN)	165.0							108.75	219.06
1	BELL SUB	194.0							0.62	110.31
1	JARS-HYD/MECH	207.0							9.58	109.69
2	DC (8.00 IN)	203.0							26.74	100.11
1	BELL SUB	239.0							0.91	73.37
1	X/O	242.0							0.46	72.46
6	DC (9.00 IN)	227.0							57.11	72.00
1	STAB/REAMR-3 PT	228.0							1.69	14.89
1	FLOAT SUB	239.0							0.68	13.20
1	SUB - FILTER	242.0							1.53	12.52
1	VERTITRAK	260.0							10.99	10.99

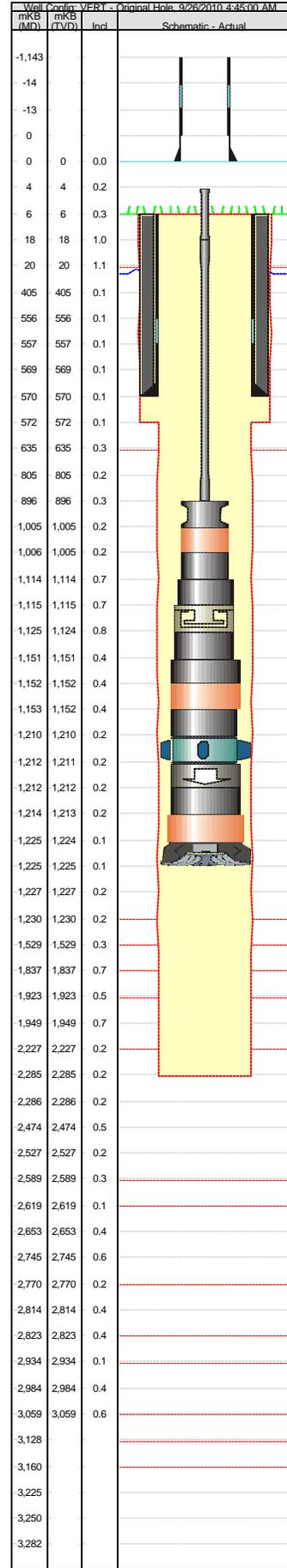
Drilling Parameters

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 (%)

Well Name: NALCOR ET.AL FINNEGAN #1



BHA #4, Drilling Assembly									
Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
1,113.00		1,225.00		110.00		14.25		7.7	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
4	0.28	REED	MSF 716	225675		4-2-2-		0-1-CT-H-X-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)		
	1,220.80	18	15	140	140				
Comment									
Reed									

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	1,220....
32	Drill pipe - Stands								878.09	1,207....
8	HWDP(4.5 IN)	127.0							109.04	329.00
1	X/O	165.0							0.62	219.96
8	DC (6.50 IN)	165.0							108.75	219.34
1	BELL SUB	194.0							0.62	110.59
1	JARS-HYD/MECH	207.0							9.58	109.97
2	DC (8.00 IN)	203.0							26.74	100.39
1	BELL SUB	239.0							0.91	73.65
1	X/O	242.0							0.46	72.74
6	DC (9.00 IN)	227.0							57.11	72.28
1	STAB/REAMR-3 PT	228.0							1.69	15.17
1	FLOAT SUB	239.0							0.68	13.48
1	SUB - FILTER	242.0							1.53	12.80
1	VERTITRAK	260.0							10.99	11.27

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	9/25/2010 12:00	9/25/2010 21:30	9.50	1,113.00	1,207.00	94.00	9.9	15	140		15,800
Original Hole	9/26/2010 00:00	9/26/2010 04:45	4.75	1,209.00	1,225.00	16.00	3.4	18	140		155,...

Mud Checks									
Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)	
9/25/2010	1,156.00	KLA SHIELD	1140.0	20.0	17.000	9.1	0.3	7.5	
9/26/2010	1,225.00	KLA SHIELD	1250.0	25.0	16.000	8.8	0.3	11.0	

Well Name: NALCOR ET.AL FINNEGAN #1

Well Contig: VERITRAC Original Hole: 9/24/2010 12:30:00 PM		BHA #3, Drilling Assembly											
mKB (MD)	Inc	Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)			
-1.143		572.00		1,113.00		747.00		51.25		14.6			
-1.029		Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull			
-1.015		3	0.30	SMITH	MSI616	JD6659		---		1-1-CT-A-X-1.00-FC-PR			
-329		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)				
-220			1,028.84	20	6	150	130						
-219		Comment											
-111		3*10, 3*12, 3*14 NOZZLES											
-110		Drill String Components											
-100		Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Cum Len (m)		
-74		1	Drill pipe - Singles								13.70		
-73		25	Drill pipe - Stands								686.12		
-72		8	HWDP(4.5 IN)	127.0							109.04		
-15		1	X/O	165.0							0.62		
-14		8	DC (6.50 IN)	165.0							108.75		
-14		1	BELL SUB	194.0							0.62		
-13		1	JARS-HYD/MECH	207.0							9.58		
-13		2	DC (8.00 IN)	203.0							26.74		
-11		1	BELL SUB	239.0							0.91		
0		1	X/O	242.0							0.46		
0		6	DC (9.00 IN)	227.0							57.11		
0		1	STAB/REAMR-3 PT	228.0							1.69		
0		1	FLOAT SUB	239.0							0.68		
0		1	SUB - FILTER	242.0							1.53		
6		1	VERTITRAK	260.0							10.99		
20		Drilling Parameters											
405		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)
556		Original Hole	9/21/2010 00:00										
557		Original Hole	9/21/2010 00:00	9/21/2010 03:30	3.50	572.00	592.00	20.00	5.7	6	133		9,700
569		Original Hole	9/21/2010 12:00	9/21/2010 23:15	11.25	592.00	743.00	151.00	13.4	12	150		10,500
570		Original Hole	9/22/2010 00:00	9/22/2010 10:45	10.75	743.00	894.00	151.00	14.0	15	140		12,000
572		Original Hole	9/22/2010 12:00	9/22/2010 20:00	8.00	839.00	1,045.00	206.00	25.8	11	140		14,000
635		Original Hole	9/22/2010 12:00	9/22/2010 20:00	8.00	894.00	1,045.00	151.00	18.9	11	140		14,000
805		Original Hole	9/23/2010 00:00	9/23/2010 09:15	9.25	1,045.00	1,092.00	47.00	5.1	16	140		15,000
1,227		Original Hole	9/23/2010 12:00	9/23/2010 12:30	0.50	1,092.00	1,113.00	21.00	42.0	20	130		14,500
1,230		Original Hole	9/23/2010 12:30	9/24/2010 12:30		1,113.00				20	130		14,500
1,529		Mud Checks											
1,837		Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)			
1,923		9/21/2010	645.00	KLA SHIELD	1080.0	13.0	11,500	10.0	0.0	3.5			
1,949		9/22/2010	970.00	KLA SHIELD	1100.0	22.0	18,000	10.0	0.0	3.0			
2,227		9/22/2010	1,113.00	KLA SHIELD	1130.0	22.0	23,000	10.0	0.0	7.0			
2,285													
2,286													
2,474													
2,527													
2,589													
2,619													
2,653													
2,745													
2,770													
2,814													
2,823													
2,934													
2,984													
3,059													
3,128													
3,160													
3,225													
3,250													
3,282													

Well Name: NALCOR ET.AL FINNEGAN #1

Well Cont'd	Original Hole	9/16/2010 5:45:00 AM
mKB (MD)	mKB (TVD)	Inc
-1.143		
-14		
-13		
0		
0	0	0.0
6	6	0.3
10	10	0.5
20	20	1.1
257	256	0.3
366	365	0.1
366	366	0.1
405	405	0.1
475	475	0.1
476	475	0.1
485	485	0.1
512	512	0.1
513	513	0.1
513	513	0.1
531	531	0.1
569	569	0.1
570	570	0.1
572	571	0.1
572	572	0.1
635	635	0.3
805	805	0.2
1,227	1,227	0.2
1,230	1,230	0.2
1,529	1,529	0.3
1,837	1,837	0.7
1,923	1,923	0.5
1,949	1,949	0.7
2,227	2,227	0.2
2,286	2,286	0.2
2,474	2,474	0.5
2,527	2,527	0.2
2,589	2,589	0.3
2,619	2,619	0.1
2,653	2,653	0.4
2,745	2,745	0.6
2,770	2,770	0.2
2,814	2,814	0.4
2,823	2,823	0.4
2,934	2,934	0.1
2,984	2,984	0.4
3,059	3,059	0.6
3,128		
3,160		
3,225		
3,250		
3,282		

BHA #2, Drilling Assembly

Depth In (mKB)		Depth Out (mKB)		Depth Drilled (m)		Drilling Time (hrs)		BHA ROP (m/hr)	
140.00		572.00		440.00		94.25		4.7	
Bit Run	Length (m)	Make	Model	Serial Number		IADC Codes		IADC Bit Dull	
2	0.47	REED	T44	LW5823		4-4-5-		3-3-BT-M-F-3.00-CI-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)		
	562.43	28	10	1	1	3.800	2.500		

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	562.43
9	Drill pipe - Stands								247.07	562.43
8	HWDP(4.5 IN)	127.0							109.04	315.36
1	X/O	165.0							0.62	206.32
8	DC (6.50 IN)	165.0							108.75	205.70
1	BELL SUB	194.0							0.62	96.95
1	JARS-HYD/MECH	203.5							9.58	96.33
2	DC (8.00 IN)	203.0							26.74	86.75
1	BELL SUB	239.0							0.91	60.01
1	X/O	242.0							0.46	59.10
2	DC(11.00 IN)	302.0							17.64	58.64
4	DC (9.00 IN)	227.0							38.19	41.00
1	FLOAT SUB	239.0							0.68	2.81
1	NB STAB	420.0							1.66	2.13

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	9/11/2010 12:00	9/11/2010 13:30	1.50	140.00	148.00	8.00	5.3	10	1	2.500	7,900
Original Hole	9/12/2010 00:00	9/12/2010 10:00	10.00	140.00	202.00	62.00	6.2	10	1		8,000
Original Hole	9/12/2010 12:00	9/12/2010 23:15	11.25	202.00	274.00	72.00	6.4	20	1	3.000	13,500
Original Hole	9/13/2010 00:00	9/13/2010 09:30	9.50	274.00	328.00	54.00	5.7	18	1	3.000	15,700
Original Hole	9/13/2010 12:00	9/13/2010 23:30	11.50	328.00	382.00	54.00	4.7	20	1	3.000	17,000
Original Hole	9/14/2010 00:00	9/14/2010 11:30	11.50	382.00	431.00	49.00	4.3	20	1	3.800	17,900
Original Hole	9/14/2010 12:00	9/14/2010 22:15	10.25	431.00	470.00	39.00	3.8	21	1	3.800	17,800
Original Hole	9/15/2010 00:00	9/15/2010 11:30	11.50	470.00	514.00	44.00	3.8	26	1	3.800	18,100
Original Hole	9/15/2010 12:00	9/15/2010 23:30	11.50	514.00	556.00	42.00	3.7	26	1	3.800	19,600
Original Hole	9/16/2010 00:00	9/16/2010 05:45	5.75	556.00	572.00	16.00	2.8	28	1	3.800	21,500

Mud Checks

Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)
9/13/2010	355.00	Gel-Chem	1110.0	46.0	18.000	10.5		6.8
9/14/2010	449.00	Gel-Chem	1100.0	44.0	16.500	10.0		6.2
9/15/2010	540.00	Gel-Chem	1100.0	36.0	14.000	9.5	0.0	6.2
9/16/2010	556.00	Gel-Chem	1130.0	36.0	14.000	9.5	0.0	6.2

Well Name: NALCOR ET.AL FINNEGAN #1

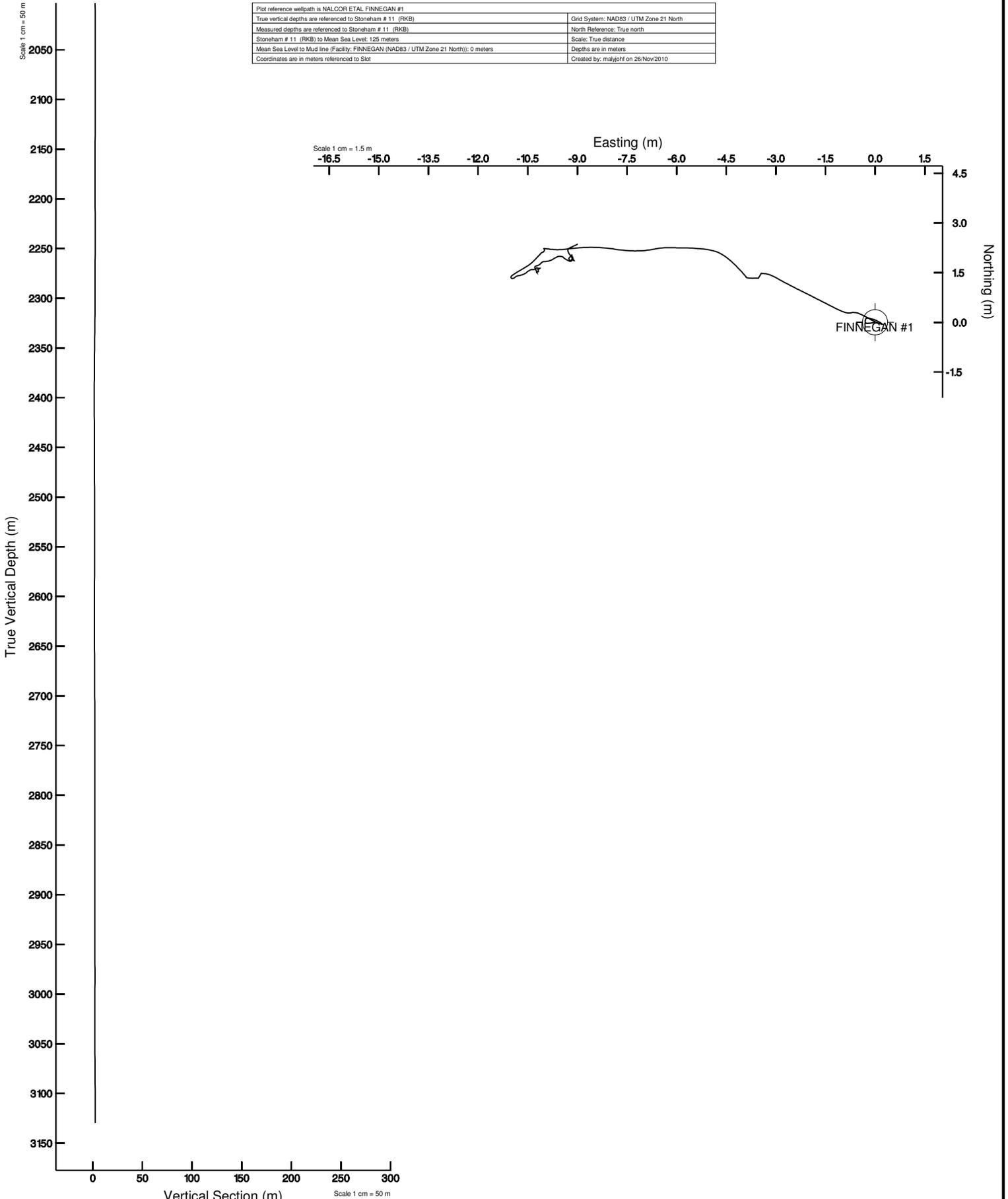
Well	Contig	VER	Original Hole	BHA #1, Drilling Assembly											
mKB (MD)	mKB (TVD)	Inc	Schematic - Actual	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)	Bit Run	Length (m)	Make	Model	Serial Number	IADC Codes	IADC Bit Dull
-1.143				0.00	140.00	140.00	35.75	3.9	1	0.42	SMITH	XRTC	PP0749	1-1-5-	1-2-WT-G-E-0.00-WT-BHA
-14				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)				
-13					126.32	8	5	170	65	1.400	1.400				
0				Comment											
0	0	0.0		Drill String Components											
6	6	0.3		Jts	Item Description	OD (mm)	ID (mm)	Mass/Len (kg/m)	Grade	Drift (mm)	Gauge (mm)	Connections	Len (m)	Cum Len (m)	
14	14	0.8		0	Drill pipe - Singles								0.00	126.32	
20	20	1.1		0	Drill pipe - Stands								0.00	126.32	
27	27	1.1		1	DC (6.50 IN)	165.0							13.54	126.32	
28	28	1.1		1	BELL SUB	194.0							0.62	112.78	
55	55	1.2		2	DC (8.00 IN)	203.0							26.74	112.16	
56	56	1.3		1	BELL SUB	239.0							0.91	85.42	
56	56	1.3		1	X/O	242.0							0.46	84.51	
74	74	1.8		2	DC(11.00 IN)	302.0							17.64	84.05	
121	121	3.3		5	DC (9.00 IN)	227.0							47.62	66.41	
131	131	3.8		1	DC (9.00 IN)	226.0							9.49	18.79	
131	131	3.8		1	X/O	235.0							0.68	9.30	
131	131	3.8		1	STAB-STRING	420.0							2.18	8.62	
134	134	3.9		1	SHOCK SUB	232.0							4.36	6.44	
138	138	4.2		1	STAB-NEAR BIT	420.0							1.66	2.08	
140	139	4.3		Drilling Parameters											
140	140	4.3		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)
405	405	0.1		Original Hole	9/9/2010 00:00	9/9/2010 01:00	1.00	0.00	29.00	29.00	29.0	6	65		900
572	572	0.1		Original Hole	9/9/2010 12:00	9/9/2010 19:45	7.75	29.00	57.00	28.00	3.6	5	110		1,160
635	635	0.3		Original Hole	9/10/2010 00:00	9/10/2010 09:14	9.25	57.00	93.00	36.00	3.9	7	130	1.400	1,300
805	805	0.2		Original Hole	9/10/2010 12:00	9/10/2010 22:15	10.25	93.00	115.00	22.00	2.1	6	160	1.400	1,400
1,227	1,227	0.2		Original Hole	9/11/2010 00:00	9/11/2010 07:30	7.50	115.00	140.00	25.00	3.3	8	170		1,486
1,230	1,230	0.2		Mud Checks											
1,529	1,529	0.3		Date	Depth (mKB)	Type	Dens (kg/m³)	PV Calc (cp)	YP Calc (Pa)	pH	Sand (%)	Solids (%)			
1,837	1,837	0.7													
1,923	1,923	0.5													
1,949	1,949	0.7													
2,227	2,227	0.2													
2,286	2,286	0.2													
2,474	2,474	0.5													
2,527	2,527	0.2													
2,589	2,589	0.3													
2,619	2,619	0.1													
2,653	2,653	0.4													
2,745	2,745	0.6													
2,770	2,770	0.2													
2,814	2,814	0.4													
2,823	2,823	0.4													
2,934	2,934	0.1													
2,984	2,984	0.4													
3,059	3,059	0.6													
3,128															
3,160															
3,225															
3,250															
3,282															

Appendix H – Directional Surveys

NALCOR ENERGY OIL AND GAS

Location: NEWFOUNDLAND, CANADA Slot: FINNEGAN #1
 Field: FINNEGAN (NAD83 / UTM Zone 21 North) Well: NALCOR et al FINNEGAN #1
 Facility: FINNEGAN (NAD83 / UTM Zone 21 North) Wellbore: awb - NALCOR et al FINNEGAN #1

Plot reference wellpath is NALCOR ETAL FINNEGAN #1	
True vertical depths are referenced to Stoneham # 11 (RKB)	Grid System: NAD83 / UTM Zone 21 North
Measured depths are referenced to Stoneham # 11 (RKB)	North Reference: True north
Stoneham # 11 (RKB) to Mean Sea Level: 125 meters	Scale: True distance
Mean Sea Level to Mud line (Facility: FINNEGAN (NAD83 / UTM Zone 21 North)): 0 meters	Depths are in meters
Coordinates are in meters referenced to Slot	Created by: maljohr on 26/Nov/2010



REFERENCE WELLPATH IDENTIFICATION

Operator	NALCOR ENERGY OIL AND GAS	Slot	FINNEGAN #1
Area	NEWFOUNDLAND, CANADA	Well	NALCOR et al FINNEGAN #1
Field	FINNEGAN (NAD83 / UTM Zone 21 North)	Wellbore	awb - NALCOR et al FINNEGAN #1
Facility	FINNEGAN (NAD83 / UTM Zone 21 North)		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 21 North	Software System	WellArchitect® 2.0
North Reference	True	User	Malyjohf
Scale	1.00214	Report Generated	26/Nov/2010 at 07:58
Convergence at slot	4.85° West	Database/Source file	WADB/awb_-_NALCOR_et_al_FINNEGAN_#1.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[m]	East[m]	Easting[m]	Northing[m]	Latitude	Longitude
Slot Location	0.00	0.00	45629.00	5549336.00	49°55'23.396"N	63°19'55.763"W
Facility Reference Pt			45629.00	5549336.00	49°55'23.396"N	63°19'55.763"W
Field Reference Pt			45629.00	5549336.00	49°55'23.396"N	63°19'55.763"W

WELLPATH DATUM

Calculation method	Minimum curvature	Stoneham # 11 (RKB) to Facility Vertical Datum	125.00m
Horizontal Reference Pt	Slot	Stoneham # 11 (RKB) to Mean Sea Level	125.00m
Vertical Reference Pt	Stoneham # 11 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00m
MD Reference Pt	Stoneham # 11 (RKB)	Section Origin	N 0.00, E 0.00 m
Field Vertical Reference	Mean Sea Level	Section Azimuth	0.00°

REFERENCE WELLPATH IDENTIFICATION			
Operator	NALCOR ENERGY OIL AND GAS	Slot	FINNEGAN #1
Area	NEWFOUNDLAND, CANADA	Well	NALCOR et al FINNEGAN #1
Field	FINNEGAN (NAD83 / UTM Zone 21 North)	Wellbore	awb - NALCOR et al FINNEGAN #1
Facility	FINNEGAN (NAD83 / UTM Zone 21 North)		

WELLPATH DATA (98 stations) † = interpolated/extrapolated station							
MD [m]	Inclination [°]	Azimuth [°]	TVD [m]	Vert Sect [m]	North [m]	East [m]	DLS [°/30m]
0.00†	0.000	259.500	0.00	0.00	0.00	0.00	0.00
6.25	0.000	259.500	6.25	0.00	0.00	0.00	0.00
570.00	0.000	259.500	570.00	0.00	0.00	0.00	0.00
604.75	0.300	259.500	604.75	-0.02	-0.02	-0.09	0.26
654.75	0.100	279.700	654.75	-0.03	-0.03	-0.26	0.13
704.75	0.200	7.900	704.75	0.06	0.06	-0.29	0.13
754.75	0.200	103.000	754.75	0.13	0.13	-0.20	0.18
804.75	0.200	108.300	804.75	0.08	0.08	-0.03	0.01
854.75	0.300	121.100	854.75	-0.01	-0.01	0.17	0.07
904.75	0.300	287.200	904.75	-0.04	-0.04	0.15	0.36
954.75	0.400	299.300	954.75	0.08	0.08	-0.12	0.07
1004.75	0.400	295.700	1004.75	0.24	0.24	-0.43	0.02
1054.75	0.300	257.800	1054.75	0.29	0.29	-0.72	0.15
1104.75	0.400	293.900	1104.74	0.33	0.33	-1.00	0.14
1154.75	0.700	297.400	1154.74	0.54	0.54	-1.44	0.18
1204.75	0.800	296.500	1204.74	0.84	0.84	-2.02	0.06
1254.75	0.500	297.000	1254.73	1.10	1.10	-2.53	0.18
1304.75	0.600	299.500	1304.73	1.32	1.32	-2.95	0.06
1354.75	0.300	276.200	1354.73	1.47	1.47	-3.31	0.21
1404.75	0.000	267.700	1404.73	1.48	1.48	-3.44	0.18
1454.75	0.200	212.600	1454.73	1.41	1.41	-3.48	0.12
1504.75	0.000	323.800	1504.73	1.33	1.33	-3.53	0.12
1554.75	0.400	269.600	1554.73	1.33	1.33	-3.70	0.24
1604.75	0.100	333.500	1604.73	1.37	1.37	-3.90	0.22
1654.75	0.800	316.300	1654.73	1.66	1.66	-4.16	0.42
1704.75	0.600	301.700	1704.72	2.05	2.05	-4.62	0.16
1754.75	0.900	274.600	1754.72	2.22	2.22	-5.24	0.27
1804.75	0.400	269.700	1804.72	2.25	2.25	-5.80	0.30
1854.75	0.500	272.100	1854.71	2.26	2.26	-6.20	0.06
1904.75	0.700	259.000	1904.71	2.21	2.21	-6.71	0.14

REFERENCE WELLPATH IDENTIFICATION

Operator	NALCOR ENERGY OIL AND GAS	Slot	FINNEGAN #1
Area	NEWFOUNDLAND, CANADA	Well	NALCOR et al FINNEGAN #1
Field	FINNEGAN (NAD83 / UTM Zone 21 North)	Wellbore	awb - NALCOR et al FINNEGAN #1
Facility	FINNEGAN (NAD83 / UTM Zone 21 North)		

WELLPATH DATA (98 stations)

MD [m]	Inclination [°]	Azimuth [°]	TVD [m]	Vert Sect [m]	North [m]	East [m]	DLS [°/30m]
1954.75	0.700	271.800	1954.71	2.16	2.16	-7.32	0.09
2004.75	0.600	279.800	2004.70	2.21	2.21	-7.88	0.08
2054.75	0.700	271.300	2054.70	2.26	2.26	-8.45	0.08
2104.75	0.500	264.600	2104.70	2.25	2.25	-8.97	0.13
2154.75	0.500	263.700	2154.70	2.21	2.21	-9.40	0.00
2204.75	0.500	277.600	2204.70	2.21	2.21	-9.84	0.07
2254.75	0.100	116.400	2254.69	2.22	2.22	-10.01	0.36
2289.20	0.200	202.100	2289.14	2.15	2.15	-10.01	0.19
2303.00	0.300	252.100	2302.94	2.12	2.12	-10.05	0.50
2316.00	0.600	222.900	2315.94	2.06	2.06	-10.13	0.85
2331.00	1.400	223.400	2330.94	1.87	1.87	-10.31	1.60
2343.00	1.000	239.200	2342.94	1.71	1.71	-10.50	1.29
2357.00	1.200	238.900	2356.94	1.57	1.57	-10.73	0.43
2372.00	0.700	237.700	2371.93	1.44	1.44	-10.94	1.00
2385.00	0.300	180.300	2384.93	1.36	1.36	-11.01	1.37
2399.00	0.300	93.800	2398.93	1.32	1.32	-10.97	0.88
2413.00	0.200	45.700	2412.93	1.34	1.34	-10.92	0.48
2426.00	0.500	58.900	2425.93	1.38	1.38	-10.85	0.71
2439.00	0.400	87.600	2438.93	1.41	1.41	-10.76	0.56
2454.00	0.600	65.600	2453.93	1.45	1.45	-10.64	0.55
2467.00	0.400	50.000	2466.93	1.51	1.51	-10.54	0.55
2481.00	0.500	59.000	2480.93	1.57	1.57	-10.45	0.26
2495.00	0.500	93.000	2494.93	1.60	1.60	-10.34	0.63
2508.00	0.300	33.200	2507.93	1.62	1.62	-10.26	1.00
2522.00	0.200	105.200	2521.93	1.65	1.65	-10.22	0.65
2536.00	0.200	131.600	2535.93	1.62	1.62	-10.18	0.20
2550.00	0.200	42.800	2549.93	1.63	1.63	-10.14	0.60
2564.00	0.300	246.500	2563.93	1.63	1.63	-10.16	1.05
2577.00	0.100	187.700	2576.93	1.60	1.60	-10.19	0.61
2590.00	0.300	163.500	2589.93	1.56	1.56	-10.18	0.49

REFERENCE WELLPATH IDENTIFICATION			
Operator	NALCOR ENERGY OIL AND GAS	Slot	FINNEGAN #1
Area	NEWFOUNDLAND, CANADA	Well	NALCOR et al FINNEGAN #1
Field	FINNEGAN (NAD83 / UTM Zone 21 North)	Wellbore	awb - NALCOR et al FINNEGAN #1
Facility	FINNEGAN (NAD83 / UTM Zone 21 North)		

WELLPATH DATA (98 stations)							
MD [m]	Inclination [°]	Azimuth [°]	TVD [m]	Vert Sect [m]	North [m]	East [m]	DLS [°/30m]
2604.00	0.200	266.300	2603.93	1.52	1.52	-10.20	0.85
2619.00	0.100	269.800	2618.93	1.52	1.52	-10.24	0.20
2632.00	0.200	138.500	2631.93	1.51	1.51	-10.23	0.64
2645.00	0.300	338.700	2644.93	1.52	1.52	-10.23	1.14
2660.00	0.500	332.900	2659.93	1.62	1.62	-10.27	0.41
2674.00	0.200	47.200	2673.93	1.69	1.69	-10.28	1.04
2686.00	0.500	77.600	2685.93	1.71	1.71	-10.22	0.86
2701.00	0.600	40.000	2700.93	1.79	1.79	-10.10	0.73
2714.00	0.400	91.200	2713.93	1.84	1.84	-10.01	1.08
2728.00	0.700	78.700	2727.93	1.85	1.85	-9.88	0.69
2741.00	0.700	58.400	2740.93	1.91	1.91	-9.74	0.57
2755.00	0.400	64.500	2754.93	1.98	1.98	-9.62	0.65
2769.00	0.200	92.200	2768.93	2.00	2.00	-9.55	0.52
2783.00	0.300	93.200	2782.93	1.99	1.99	-9.49	0.21
2797.00	0.400	136.200	2796.93	1.96	1.96	-9.42	0.58
2810.00	0.400	116.400	2809.92	1.90	1.90	-9.35	0.32
2823.00	0.400	113.500	2822.92	1.86	1.86	-9.26	0.05
2837.00	0.300	68.500	2836.92	1.86	1.86	-9.19	0.61
2852.00	0.200	4.700	2851.92	1.90	1.90	-9.15	0.56
2865.00	0.200	204.900	2864.92	1.90	1.90	-9.15	0.91
2879.00	0.100	0.900	2878.92	1.89	1.89	-9.16	0.63
2892.00	0.100	217.800	2891.92	1.89	1.89	-9.17	0.44
2906.00	0.200	235.900	2905.92	1.87	1.87	-9.20	0.23
2919.00	0.100	217.300	2918.92	1.85	1.85	-9.22	0.25
2934.00	0.100	46.700	2933.92	1.85	1.85	-9.22	0.40
2947.00	0.400	322.000	2946.92	1.89	1.89	-9.24	0.93
2961.00	0.300	46.000	2960.92	1.95	1.95	-9.25	1.02
2975.00	0.400	39.100	2974.92	2.02	2.02	-9.19	0.23
2989.00	0.400	188.700	2988.92	2.01	2.01	-9.17	1.65
3002.00	0.200	56.500	3001.92	1.97	1.97	-9.15	1.28

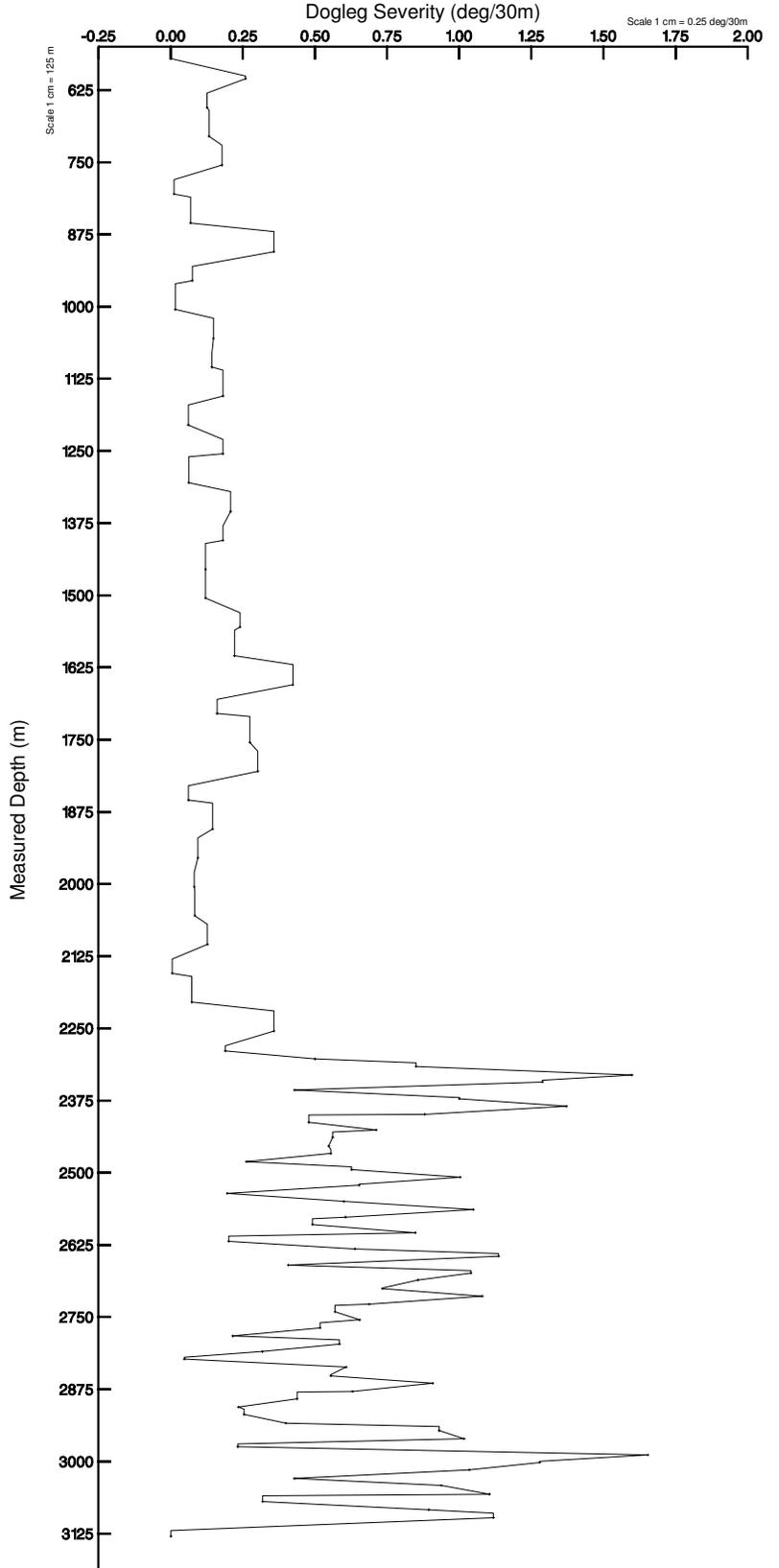
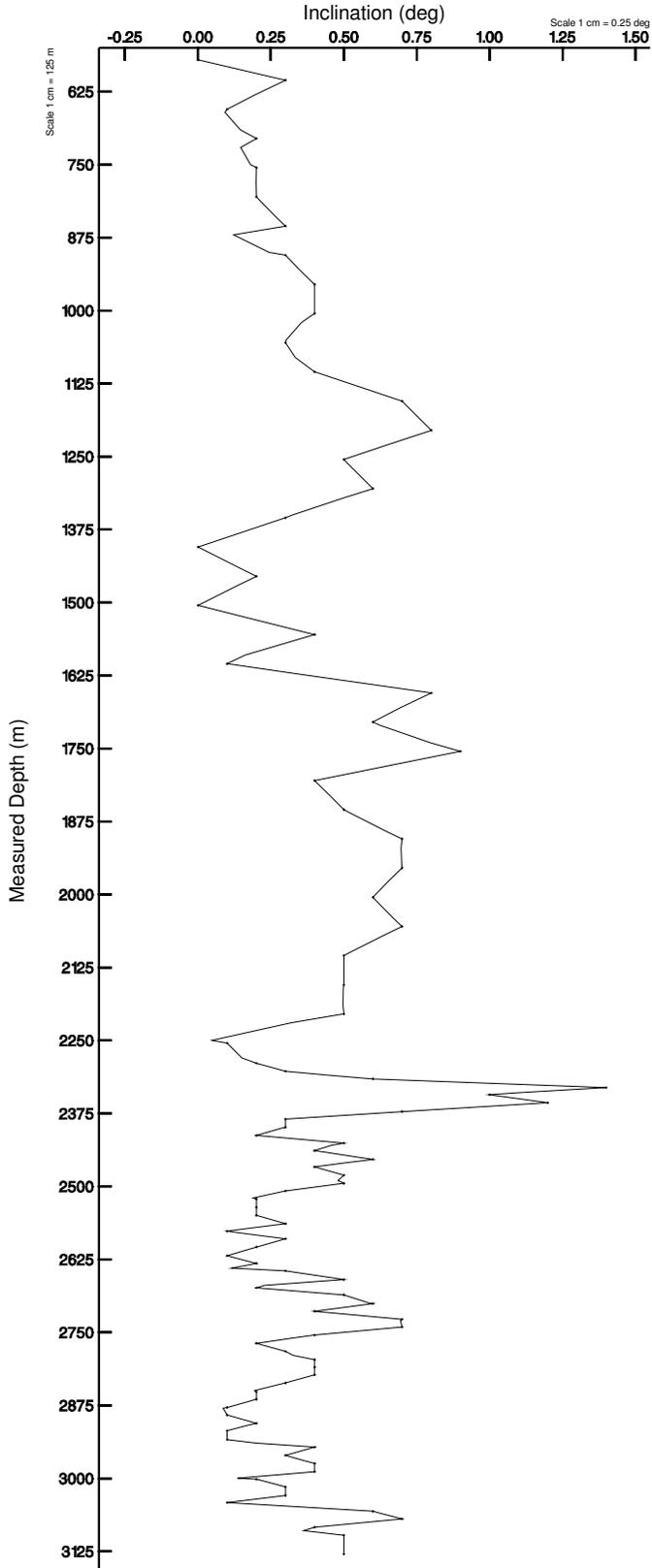
REFERENCE WELLPATH IDENTIFICATION			
Operator	NALCOR ENERGY OIL AND GAS	Slot	FINNEGAN #1
Area	NEWFOUNDLAND, CANADA	Well	NALCOR et al FINNEGAN #1
Field	FINNEGAN (NAD83 / UTM Zone 21 North)	Wellbore	awb - NALCOR et al FINNEGAN #1
Facility	FINNEGAN (NAD83 / UTM Zone 21 North)		

WELLPATH DATA (98 stations)							
MD [m]	Inclination [°]	Azimuth [°]	TVD [m]	Vert Sect [m]	North [m]	East [m]	DLS [°/30m]
3015.00	0.300	182.900	3014.92	1.95	1.95	-9.14	1.04
3030.00	0.300	141.100	3029.92	1.88	1.88	-9.11	0.43
3042.00	0.100	274.000	3041.92	1.86	1.86	-9.10	0.94
3057.00	0.600	331.500	3056.92	1.93	1.93	-9.16	1.11
3070.00	0.700	323.100	3069.92	2.05	2.05	-9.24	0.32
3084.00	0.400	355.000	3083.92	2.17	2.17	-9.29	0.90
3098.00	0.500	64.900	3097.92	2.24	2.24	-9.24	1.12
3130.00	0.500	64.900	3129.92	2.36	2.36	-8.99	0.00

WELLPATH COMPOSITION Ref Wellbore: awb - NALCOR et al FINNEGAN #1 Ref Wellpath: NALCOR ETAL FINNEGAN #1					
Start MD [m]	End MD [m]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
6.25	570.00	Drift Indicator (Standard)	Vertical Assumption	awb - NALCOR et al FINNEGAN #1	
570.00	2254.75	Dip meter (survey qualified)	Wireline Surveys	awb - NALCOR et al FINNEGAN #1	
2254.75	3130.00	NaviTrak (Standard)	INTEQ TRUTRAK 216mm <2285m to	awb - NALCOR et al FINNEGAN #1	



Plot reference wellpath is NALCOR ETAL FINNEGAN #1	
True vertical depths are referenced to Stoneham # 11 (RKB)	Grid System: NAD83 / UTM Zone 21 North
Measured depths are referenced to Stoneham # 11 (RKB)	North Reference: True north
Stoneham # 11 (RKB) to Mean Sea Level: 125 meters	Scale: True distance
Mean Sea Level to Mud line (Facility: FINNEGAN (NAD83 / UTM Zone 21 North)): 0 meters	Depths are in meters
Coordinates are in meters referenced to Slot	Created by: mahyjh on 26/Nov/2010



ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes INTEQ
Software System: WellArchitect®2.0

REFERENCE WELLPATH IDENTIFICATION

Operator NALCOR ENERGY OIL AND GAS
Area NEWFOUNDLAND, CANADA
Field FINNEGAN (NAD83 / UTM Zone 21 North)
Facility FINNEGAN (NAD83 / UTM Zone 21 North)
Slot FINNEGAN #1
Well NALCOR et al FINNEGAN #1
Wellbore awb - NALCOR et al FINNEGAN #1
Wellpath NALCOR ETAL FINNEGAN #1
Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD83 / UTM Zone 21 North
North Refe TRUE
Scale 1.00214
Convergen 4.85° West
Software S WellArchitect®
User Malyjohf
Report Ger 26/Nov/2010 at 07:59
DataBase/\\WADB/ev01.xml

Slot Locatic	Local North [m]	Local East [m]	Grid East [m]	Grid North [m]	Latitude	Longitude
Slot Locatic	0	0	45629	5549336	49°55'23.3 63°19'55.763"W	
Facility Ref			45629	5549336	49°55'23.3 63°19'55.763"W	
Field Refer			45629	5549336	49°55'23.3 63°19'55.763"W	

WELLPATH DATUM

Calculation Minimum curvature
Horizontal Slot
Vertical Re Stoneham # 11 (RKB)
MD Refere Stoneham # 11 (RKB)
Field Vertic Mean Sea Level
Stoneham 125.00m
Stoneham 125.00m
Facility Ver 0.00m
Section Ori 0.00m
Section Ori 0.00m
Section Azi 0.00°

† = interpolated/extrapolated station

WELLPATH DATA Wellbore: awb - NALCOR et al FINNEGAN #1 Wellpath: NALCOR ETAL FINNEGAN #1

MD [m]	Inclination [°]	Azimuth [°]	TVD [m]	Vert Sect [m]	North [m]	East [m]	DLS [°/30m]
†	0	0	259.5	0	0	0	0
	6.25	0	259.5	6.25	0	0	0
	570	0	259.5	570	0	0	0
	604.75	0.3	259.5	604.75	-0.02	-0.02	-0.09
	654.75	0.1	279.7	654.75	-0.03	-0.03	-0.26
	704.75	0.2	7.9	704.75	0.06	0.06	-0.29
	754.75	0.2	103	754.75	0.13	0.13	-0.2
	804.75	0.2	108.3	804.75	0.08	0.08	-0.03
	854.75	0.3	121.1	854.75	-0.01	-0.01	0.17
	904.75	0.3	287.2	904.75	-0.04	-0.04	0.15
	954.75	0.4	299.3	954.75	0.08	0.08	-0.12
	1004.75	0.4	295.7	1004.75	0.24	0.24	-0.43
	1054.75	0.3	257.8	1054.75	0.29	0.29	-0.72
	1104.75	0.4	293.9	1104.74	0.33	0.33	-1
	1154.75	0.7	297.4	1154.74	0.54	0.54	-1.44
	1204.75	0.8	296.5	1204.74	0.84	0.84	-2.02
	1254.75	0.5	297	1254.73	1.1	1.1	-2.53
	1304.75	0.6	299.5	1304.73	1.32	1.32	-2.95
	1354.75	0.3	276.2	1354.73	1.47	1.47	-3.31
	1404.75	0	267.7	1404.73	1.48	1.48	-3.44
	1454.75	0.2	212.6	1454.73	1.41	1.41	-3.48
	1504.75	0	323.8	1504.73	1.33	1.33	-3.53
	1554.75	0.4	269.6	1554.73	1.33	1.33	-3.7
	1604.75	0.1	333.5	1604.73	1.37	1.37	-3.9
	1654.75	0.8	316.3	1654.73	1.66	1.66	-4.16
	1704.75	0.6	301.7	1704.72	2.05	2.05	-4.62
	1754.75	0.9	274.6	1754.72	2.22	2.22	-5.24
	1804.75	0.4	269.7	1804.72	2.25	2.25	-5.8
	1854.75	0.5	272.1	1854.71	2.26	2.26	-6.2
	1904.75	0.7	259	1904.71	2.21	2.21	-6.71
	1954.75	0.7	271.8	1954.71	2.16	2.16	-7.32
	2004.75	0.6	279.8	2004.7	2.21	2.21	-7.88
	2054.75	0.7	271.3	2054.7	2.26	2.26	-8.45

2104.75	0.5	264.6	2104.7	2.25	2.25	-8.97	0.13
2154.75	0.5	263.7	2154.7	2.21	2.21	-9.4	0
2204.75	0.5	277.6	2204.7	2.21	2.21	-9.84	0.07
2254.75	0.1	116.4	2254.69	2.22	2.22	-10.01	0.36
2289.2	0.2	202.1	2289.14	2.15	2.15	-10.01	0.19
2303	0.3	252.1	2302.94	2.12	2.12	-10.05	0.5
2316	0.6	222.9	2315.94	2.06	2.06	-10.13	0.85
2331	1.4	223.4	2330.94	1.87	1.87	-10.31	1.6
2343	1	239.2	2342.94	1.71	1.71	-10.5	1.29
2357	1.2	238.9	2356.94	1.57	1.57	-10.73	0.43
2372	0.7	237.7	2371.93	1.44	1.44	-10.94	1
2385	0.3	180.3	2384.93	1.36	1.36	-11.01	1.37
2399	0.3	93.8	2398.93	1.32	1.32	-10.97	0.88
2413	0.2	45.7	2412.93	1.34	1.34	-10.92	0.48
2426	0.5	58.9	2425.93	1.38	1.38	-10.85	0.71
2439	0.4	87.6	2438.93	1.41	1.41	-10.76	0.56
2454	0.6	65.6	2453.93	1.45	1.45	-10.64	0.55
2467	0.4	50	2466.93	1.51	1.51	-10.54	0.55
2481	0.5	59	2480.93	1.57	1.57	-10.45	0.26
2495	0.5	93	2494.93	1.6	1.6	-10.34	0.63
2508	0.3	33.2	2507.93	1.62	1.62	-10.26	1
2522	0.2	105.2	2521.93	1.65	1.65	-10.22	0.65
2536	0.2	131.6	2535.93	1.62	1.62	-10.18	0.2
2550	0.2	42.8	2549.93	1.63	1.63	-10.14	0.6
2564	0.3	246.5	2563.93	1.63	1.63	-10.16	1.05
2577	0.1	187.7	2576.93	1.6	1.6	-10.19	0.61
2590	0.3	163.5	2589.93	1.56	1.56	-10.18	0.49
2604	0.2	266.3	2603.93	1.52	1.52	-10.2	0.85
2619	0.1	269.8	2618.93	1.52	1.52	-10.24	0.2
2632	0.2	138.5	2631.93	1.51	1.51	-10.23	0.64
2645	0.3	338.7	2644.93	1.52	1.52	-10.23	1.14
2660	0.5	332.9	2659.93	1.62	1.62	-10.27	0.41
2674	0.2	47.2	2673.93	1.69	1.69	-10.28	1.04
2686	0.5	77.6	2685.93	1.71	1.71	-10.22	0.86
2701	0.6	40	2700.93	1.79	1.79	-10.1	0.73
2714	0.4	91.2	2713.93	1.84	1.84	-10.01	1.08
2728	0.7	78.7	2727.93	1.85	1.85	-9.88	0.69
2741	0.7	58.4	2740.93	1.91	1.91	-9.74	0.57
2755	0.4	64.5	2754.93	1.98	1.98	-9.62	0.65
2769	0.2	92.2	2768.93	2	2	-9.55	0.52
2783	0.3	93.2	2782.93	1.99	1.99	-9.49	0.21
2797	0.4	136.2	2796.93	1.96	1.96	-9.42	0.58
2810	0.4	116.4	2809.92	1.9	1.9	-9.35	0.32
2823	0.4	113.5	2822.92	1.86	1.86	-9.26	0.05
2837	0.3	68.5	2836.92	1.86	1.86	-9.19	0.61
2852	0.2	4.7	2851.92	1.9	1.9	-9.15	0.56
2865	0.2	204.9	2864.92	1.9	1.9	-9.15	0.91
2879	0.1	0.9	2878.92	1.89	1.89	-9.16	0.63
2892	0.1	217.8	2891.92	1.89	1.89	-9.17	0.44
2906	0.2	235.9	2905.92	1.87	1.87	-9.2	0.23
2919	0.1	217.3	2918.92	1.85	1.85	-9.22	0.25
2934	0.1	46.7	2933.92	1.85	1.85	-9.22	0.4
2947	0.4	322	2946.92	1.89	1.89	-9.24	0.93
2961	0.3	46	2960.92	1.95	1.95	-9.25	1.02
2975	0.4	39.1	2974.92	2.02	2.02	-9.19	0.23
2989	0.4	188.7	2988.92	2.01	2.01	-9.17	1.65
3002	0.2	56.5	3001.92	1.97	1.97	-9.15	1.28
3015	0.3	182.9	3014.92	1.95	1.95	-9.14	1.04
3030	0.3	141.1	3029.92	1.88	1.88	-9.11	0.43
3042	0.1	274	3041.92	1.86	1.86	-9.1	0.94
3057	0.6	331.5	3056.92	1.93	1.93	-9.16	1.11
3070	0.7	323.1	3069.92	2.05	2.05	-9.24	0.32
3084	0.4	355	3083.92	2.17	2.17	-9.29	0.9
3098	0.5	64.9	3097.92	2.24	2.24	-9.24	1.12
3130	0.5	64.9	3129.92	2.36	2.36	-8.99	0

WELLPATH COMPOSITION Ref Wellbore: awb - NALCOR et al FINNEGAN #1 Ref Wellpath: NALCOR ETAL FINNEGAN #1

Log Name/Start MD End MD Pos Unc Model

[m] [m]

Vertical As: 6.25 570 Drift Indicator (Standard)
 Wireline Su 570 2254.75 Dip meter (survey qualified)
 INTEQ TRU 2254.75 3130 NavTrak (Standard)

Appendix I – Geological Reports and Descriptions

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-10	Report No. 1
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Current Information

Time 06:00	Depth(MD) 77.5m	Depth(TVD) 77.5m	Progress 52.5 m	Formation Allochthon A	Status Drill ahead @ 79.0mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 1.0	RT 6.30	Water Depth (SF-RT)

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
42.00	1.00 ⁰	0	42.0				
72.00	1.59 ⁰	0	72.0				

Summary of Previous 24 Hours

Spud well at 2010-09-09 @ 09:00hrs. Drill 444.5mm hole from 25.6m to 77.5m. Rig up tongs to break down 9" DC. Wireline surveys – multi-shot surveys. Continue to drill ahead
--

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1060kg/ m3	Viscosity 100	Fluid Loss to hole 14.0cm ³ /30min	PV/YP 45.0/10.0	Chlorides 300mg/L
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Bit and Casing Data

Bit No. 1	Size 444.5	Type Smith XRTC Milltooth	Depth in 25.6	Hours 16.5	ROP(M/HR) 3.17	Last CSG(size/Depth) 508@25.0m Next CSG(size/Depth)340@570m
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Rate of Penetration (Meters/Hour)

Interval(m) 25 to 77.5	Average ROP m/hr 4.6	Max ROP 12.4	Min ROP 1.0	Remarks Ls+Sh
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Hydrocarbon Data

Interval(m) 25 to 77.5	TG % tr-0.13	%C1 tr-0.10	%C2 0.08	%C3 0.05	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.05		
Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>		<u>Actual</u>	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)

Allochthon A	0	0		25.6	25.6
Allochthon B	405	405			
Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche					
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head					
Remarks					
<u>MWD Sensors Depths:</u> Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-10	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
25.6m	Allochthon A Formation
25 – 75 50.0m	<p>Limestone: 70%, medium - dark brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.</p> <p>Shale: 30%, medium - dark gray, firm - hard, in part brittle, platy - blocky, fine disseminated pyrite, occasional slickenside.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-11	Report No. 2
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Current Information

Time 06:00	Depth(MD) 132.0m	Depth(TVD) 132.0m	Progress 54.5 m	Formation Allochthon A	Status Drill ahead @ 135.0mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 2.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
82.00	2.68 ⁰	0	82.0				
97.00	2.74 ⁰		97.0				
124.00	3.41 ⁰		124.0				

Summary of Previous 24 Hours

Drill 444.5mm hole from 77.5m to 132.0m. Rig up tongs and make rat hole connection with 9" & 8" DC. Wireline surveys – multi-shot surveys. Continue to drill ahead
--

Operations Forecast (next 24 Hours)

Drill ahead in rotary mode as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1080kg/ m3	Viscosity 105	Fluid Loss to hole 12.0cm ³ /30min	PV/YP 30.0/7.5	Chlorides 200mg/L
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Bit and Casing Data

Bit No. 1	Size 444.5	Type Smith XRTC Milltooth	Depth in 25.6	Hours 36.3	ROP(M/HR) 2.97	Last CSG(size/Depth) 508@25.0m Next CSG(size/Depth)340@570m
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Rate of Penetration (Meters/Hour)

Interval(m) 77.5 to 132.0	Average ROP m/hr 3.2	Max ROP 7.6	Min ROP 1.4	Remarks Ls+Sh
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Hydrocarbon Data

Interval(m) 77.5 to 132.0	TG % 0.3-.03	%C1 .27-.02	%C2 0.02	%C3 0.01	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.09
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Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>		<u>Actual</u>	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)

Allochthon A	0	0		25.6	25.6
Allochthon B	405	405			
Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-11	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
25.6m	Allochthon A Formation
75 – 130 55.0m	<p>Limestone: 65%, light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.</p> <p>Shale: 35%, dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.</p> <p>Chert: trace, light brown, very hard, angular, conchoidal.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-12	Report No. 3
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Current Information

Time 06:00	Depth(MD) 184.0m	Depth(TVD) 184.0m	Progress 52.0 m	Formation Allochthon A	Status Drill ahead @ 187.0mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 3.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
124.00	3.41 ⁰	0	124.0				
161.00	3.20 ⁰		161.0				
171.00	3.0 ⁰		171.0				

Summary of Previous 24 Hours

Drill 444.5mm hole from 132m to 140.0m. Circulate hole clean & POOH and lay down BHA. Pickup VertiTrak, roller reamer, collars & new shock sub. Directional work and test VertiTrak. Change out liners in pump#2. Trip in hole and downlink with VertiTrak. Continue to drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead with VertiTrak assembly in slide mode as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1095kg/ m3	Viscosity 88	Fluid Loss to hole 11.0cm ³ /30min	PV/YP 37.0/5.5	Chlorides 100mg/L
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Bit and Casing Data

Bit No. 2	Size 444.5	Type Reed T44 Tri-Cone	Depth in 140.0	Hours 6.6	ROP(M/HR) 7.10	Last CSG(size/Depth)508@25.0m Next CSG(size/Depth)340@570m
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Rate of Penetration (Meters/Hour)

Interval(m) 132.0 to 184.0	Average ROP m/hr 7.2	Max ROP 16.5	Min ROP 1.7	Remarks Ls+Sh
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Hydrocarbon Data

Interval(m) 132.0 to 184.0	TG % 0.36-.06	%C1 .31-.05	%C2 0.03	%C3 0.02	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.20		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>		<u>Actual</u>	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)

Allochthon A	0	0		25.6	25.6
Allochthon B	405	405			
Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-12	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
25.6m	Allochthon A Formation
130 – 180 50.0m	<p>Limestone: 70%, light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.</p> <p>Shale: 30%, dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-13	Report No. 4
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Current Information

Time 06:00	Depth(MD) 307.0m	Depth(TVD) 307.0m	Progress 123.0 m	Formation Allochthon A	Status Drill ahead @ 311.0mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 4.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
261.00	0.1 ⁰	0	261.0				
271.00	0.1 ⁰		271.0				
291.00	0.1 ⁰		291.0				

Summary of Previous 24 Hours

Drill 444.5mm hole from 184m to 307.0m. with BHA: REED T44, VERTITRAK, REAMR-3 PT ROLLR, SUB - FILTER, FLOAT SUB, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Drill ahead with VertiTrak assembly in slide mode as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1110kg/ m ³	Viscosity 84	Fluid Loss to hole 12.0cm ³ /30min	PV/YP 44.0/18.0	Chlorides 200mg/L
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Bit and Casing Data

Bit No. 2	Size 444.5	Type Reed T44 Tri-Cone	Depth in 140.0	Hours 25.4	ROP(M/HR) 6.73	Last CSG(size/Depth)508@25.0m Next CSG(size/Depth)340@570m
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Rate of Penetration (Meters/Hour)

Interval(m) 184.0 to 307.0	Average ROP m/hr 8.2	Max ROP 22.7	Min ROP 1.7	Remarks Ls+Sh
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Hydrocarbon Data

Interval(m) 184.0 to 307.0	TG % 1.63-.08	%C1 1.54-.06	%C2 0.04	%C3 0.03	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.60		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>		<u>Actual</u>	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)

Allochthon A	0	0		25.6	25.6
Allochthon B	405	405			
Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
<u>MWD Sensors Depths:</u> Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-13	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
25.6m	Allochthon A Formation
180 – 200 20.0m	<p>Limestone: 60%, dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>Shale: 38%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.</p> <p>Chert: 2%, light brown, light gray, very hard, angular, conchoidal.</p>
200 – 230 30.0m	<p>Shale: 75%, green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.</p> <p>Limestone: 25%, dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p>
230 – 240 10.0m	<p>Limestone: 85%, off white, buff, cream, light brown, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, frequent nodular pyrite, trace bitumen staining, tight, no shows.</p> <p>Shale: 15%, green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.</p>
240 – 260 20.0m	<p>Limestone: 80%, dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>Shale: 20%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.</p>

<p>260 – 275 15.0m</p>	<p>Shale: 60%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks. Limestone: 38%, dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows. Chert: 2%, light brown, light gray, very hard, angular, conchoidal.</p>
<p>275 – 305 30.0m</p>	<p>Limestone: 50%, light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows. Shale: 50%, green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-14	Report No. 5
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Current Information

Time 06:00	Depth(MD) 408.0m	Depth(TVD) 408.0m	Progress 101.0 m	Formation Allochthon A	Status Drill ahead @ 411.0mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 5.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
251.00	0.1 ⁰	0	251.0				
371.00	0.1 ⁰		371.0				
391.00	0.1 ⁰		391.0				

Summary of Previous 24 Hours

Drill 444.5mm hole from 307m to 408.0m. with BHA: REED T44, VERTITRAK, REAMR-3 PT ROLLR, SUB - FILTER, FLOAT SUB, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Drill ahead with VertiTrak assembly in slide mode as per well plan trajectory to casing point.
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Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1110kg/ m ³	Viscosity 84	Fluid Loss to hole 12.0cm ³ /30min	PV/YP 46.0/18.0	Chlorides 100mg/L
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Bit and Casing Data

Bit No. 2	Size 444.5	Type Reed T44 Tri-Cone	Depth in 140.0	Hours 43.9	ROP(M/HR) 6.15	Last CSG(size/Depth)508@25.0m Next CSG(size/Depth)340@570m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
307.0 to 357.0	6.3	13.2	2.3	Ls+Sh
359.0 to 361.0	4.4	6.4	2.7	Ls+Sh
363.0 to 408.0	6.1	11.5	1.8	Sh+Ls+Cht
Peaks				
357.0 to 359.0	5.3	9.6	3.0	Ls+Sh
361.0 to 363.0	4.4	7.4	2.5	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
307.0 to 357.0	3.21-1.15	2.39-.12	0.34	0.33	0.12	tr	Bkgd Gas=1.54
359.0 to 361.0	2.23-1.82	1.64-1.34	0.24	0.23	0.08	tr	
363.0 to 408.0	3.89-1.20	2.86-0.94	0.35	0.34	0.08	tr	
Peaks							
357.0 to 359.0	4.10	3.07	0.42	0.42	0.54	0.03	Peak
361.0 to 363.0	5.18	3.83	0.56	0.56	0.17	0.03	Peak

Trip	Bkgrd	Pumps	Depth	Conn Gas	Bkgd	Pumps	Depth	Est. Pore Pressure	Depth
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Gas %	Gas%	off (hrs)	m		Gas	off (hr)		xxxxkg/m3	xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405			
Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
<u>MWD Sensors Depths:</u> Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-14	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
25.6m	Allochthon A Formation
305 – 330 25.0m	<p>Limestone: 50%, light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>Shale: 50%, green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.</p>
330 – 365 35.0m	<p>Limestone: 75%, off white, buff, light - medium brown, cream, massive, mudstone, crypto crystalline, hard, in part siliceous & brittle, stylolitic, fractures with frequent clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>Shale: 25%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.</p>
365 – 385 20.0m	<p>Shale: 70%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.</p> <p>Limestone: 30%, light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p>
385 – 405 20.0m	<p>Shale: 80%, green gray, medium - dark gray, reddish brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.</p> <p>Chert: 10%, green gray, reddish brown, light pale gray, very hard, angular, conchoidal.</p> <p>Limestone: 10%, light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-15	Report No. 6
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Current Information

Time 06:00	Depth(MD) 492.5m	Depth(TVD) 492.0m	Progress 84.5 m	Formation Allochthon B	Status Drill ahead @ 494.0mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 6.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
431.00	0.1 ⁰	0	430.79	9.47			
451.00	0.1 ⁰		450.79	9.50			
471.00	0.1 ⁰		470.79	9.54			

Summary of Previous 24 Hours

Drill 444.5mm hole from 408m to 492.5m. with BHA: REED T44, VERTITRAK, REAMR-3 PT ROLLR, SUB - FILTER, FLOAT SUB, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, Drill pipe - Stands, Drill pipe – Singles.

Operations Forecast (next 24 Hours)

Drill ahead with VertiTrak assembly in slide mode as per well plan trajectory to casing point.
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Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1100kg/ m ³	Viscosity 74	Fluid Loss to hole 10.0cm ³ /30min	PV/YP 44.0/16.5	Chlorides 150mg/L
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Bit and Casing Data

Bit No. 2	Size 444.5	Type Reed T44 Tri-Cone	Depth in 140.0	Hours 64.0	ROP(M/HR) 5.53	Last CSG(size/Depth)508@25.0m Next CSG(size/Depth)340@570m
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Rate of Penetration (Meters/Hour)

Interval(m) 408.0 to 492.5	Average ROP m/hr 4.4	Max ROP 12.5	Min ROP 2.1	Remarks Sh+Ls+Cht
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Hydrocarbon Data

Interval(m) 408.0 to 492.5	TG % 2.32-0.47	%C1 2.07-.37	%C2 0.08	%C3 0.07	%C4 0.01	%C5 tr	HYDC Remarks Bkgd Gas=0.77		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

Formations	Prognosed		Actual	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)
Allochthon A	0	0	25.6	25.6

Allochthon B	405	405		385	384.79
Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-15	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
385.0m	Allochthon B Formation
405 – 450 45.0m	<p>Shale: 58%, 80% green gray, 20% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + serpentine stringers, frequent slickenside.</p> <p>Limestone: 25%, light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>Chert: 17%, red brown, light pale gray, light green, clear, very hard, angular, conchoidal.</p>
450 – 490 40.0m	<p>Shale-Siltstone: 95%, red brown, occasional green gray, medium - dark gray, firm - very hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers, micro micaceous.</p> <p>Dolomite: 3%, off white, light gray, hard, in part brittle, micro crystalline to crystalline, no visible porosity, no shows.</p> <p>Chert: 2%, light pale gray, light green, buff, clear, very hard, angular, conchoidal.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-16	Report No. 7
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Current Information

Time 06:00	Depth(MD) 567.0m	Depth(TVD) 566.8m	Progress 75.0 m	Formation Allochthon B	Status Drill ahead @ 570.0mMD.
Rig Stoneham 11	Spud Date 2010-09-09	Days from Spud 7.0	RT 6.25	Ground Elevation 118.75	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
511.00	0.1 ⁰	0	510.79	9.61			
531.00	0.1 ⁰		530.79	9.64			
551.00	0.1 ⁰		550.79	9.68			

Summary of Previous 24 Hours

Drill 444.5mm hole from 408m to 492.5m. with BHA: REED T44, VERTITRAK, REAMR-3 PT ROLLR, SUB - FILTER, FLOAT SUB, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, Drill pipe - Stands, Drill pipe – Singles. Repair Mud Pump head, valves and seat.
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Operations Forecast (next 24 Hours)

Drill ahead with VertiTrak assembly in slide mode as per well plan trajectory to casing point @ 573mMD.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1100kg/m ³	Viscosity 64	Fluid Loss to hole 9.0cm ³ /30min	PV/YP 36.0/14.0	Chlorides 200mg/L
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Bit and Casing Data

Bit No. 2	Size 444.5	Type Reed T44 Tri-Cone	Depth in 140.0	Hours 84.0	ROP(M/HR) 5.09	Last CSG(size/Depth)508@25.0m Next CSG(size/Depth)340@570m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
492.5 to 536.0	4.5	8.9	2.4	Sh+Dol+Ls
540.0 to 567.0	3.5	7.7	1.8	Ls+Sh
Peak 536-540	8.0	9.8	5.7	Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
492.5 to 536.0	0.84-0.33	0.65-.26	0.05	0.05	0.02	tr	Bkgd Gas=1.02
540.0 to 567.0	1.88-0.74	1.32-0.58	0.16	0.15	0.03	tr	
Peak 536-540	1.75	1.31	0.19	0.18	0.06	0.02	peak

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-16	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
385.0m	Allochthon B Formation
490 – 535 45.0m	<p>Shale: 69%, 75% green gray, 25% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + quartz stringers, frequent slickenside, occasional off white very hard indurated sandstone grains.</p> <p>Dolomite: 20%, buff, off white, micro crystalline - crystalline, massive, very hard, silica cemented, brittle, no visible porosity, no shows.</p> <p>Limestone: 8%, light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>Sandstone: 3%, off white, buff, fine grained, moderate sorted, rounded, mainly quartz, very hard, indurated with silica cement, trace fine disseminated pyrite, no visible porosity, no shows.</p>
535 – 565 30.0m	<p>Limestone: 50%, light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>Shale-Siltstone: 48%, dark - medium gray, green gray, trace red brown, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.</p> <p>Dolomite: 2%, buff, off white, micro crystalline - crystalline, massive, very hard, silica cemented, brittle, no visible porosity, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-17	Report No. 8
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Current Information

Time 06:00	Depth(MD) 572.0m	Depth(TVD) 571.9m	Progress 5.0 m	Formation Allochthon B	Status RIH with casing.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 7.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
511.00	0.1 ⁰	0	510.79	9.61			
531.00	0.1 ⁰		530.79	9.64			
551.00	0.1 ⁰		550.79	9.68			

Summary of Previous 24 Hours

Drill 444.5mm hole from to 572.0m. with BHA: REED T44, VERTITRAK, REAMR-3 PT ROLLR, SUB - FILTER, FLOAT SUB, SHOCK SUB, DC (9.00 IN), DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, Drill pipe - Stands, Drill pipe – Singles. POOH with BHA and RIH with BHA assembly to conduct a wiper trip and condition mud. Rig up to run 344mm surface casing.

Operations Forecast (next 24 Hours)

Run 344mm surface casing and cement.

Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1110kg/m ³	Viscosity 100	Fluid Loss to hole 9.0cm ³ /30min	PV/YP 60.0/25.0	Chlorides 200mg/L
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Bit and Casing Data

Bit No. 2	Size 444.5	Type Reed T44 Tri-Cone	Depth in 140.0	Hours 86.0	ROP(M/HR) 5.02	Last CSG(size/Depth) 508@25.0m Next CSG(size/Depth) 340@570m
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Rate of Penetration (Meters/Hour)

Interval(m) 567.0 to 572.0	Average ROP m/hr 3.9	Max ROP 5.0	Min ROP 2.8	Remarks Sh+Ls
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Hydrocarbon Data

Interval(m) 567.0 to 572.0	TG % 1.10-0.63	%C1 0.75-.45	%C2 0.12	%C3 0.11	%C4 0.02	%C5 tr	HYDC Remarks Bkgd Gas=0.89		
Trip Gas % 2.97	Bkgd Gas % 0.77	Pumps off (hrs) 11.0	Depth m 572	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

Formations	Prognosed		Actual	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)
Allochthon A	0	0	25.6	25.6

Allochthon B	405	405		385	384.79
Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-17	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
385.0m	Allochthon B Formation
565 – 572 7.0m	<p>Shale: 70%, dark - medium gray, green gray, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.</p> <p>Limestone: 30%, light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>TD 444.5mm section at 572mMD.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-21	Report No. 9
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Current Information

Time 06:00	Depth(MD) 572.0m	Depth(TVD) 571.9m	Progress 0.0 m	Formation Allochthon B	Status Conditioning New Mud.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 12.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
511.00	0.1 ⁰	0	510.79	9.61			
531.00	0.1 ⁰		530.79	9.64			
551.00	0.1 ⁰		550.79	9.68			

Summary of Previous 24 Hours

Drill out cement. Drill float & shoe. Tag float at 557.1m and shoe at 567.7m. Condition mud and circulate.
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Operations Forecast (next 24 Hours)

Drill 311mm hole to 577mMD, circulate and perform LOT on the formation. Drill ahead.
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Drilling Fluid Properties

Formation Leak of Test	Fluid Type Gel Chem	Density 1080kg/m ³	Viscosity 120	Fluid Loss to hole 0.0cm ³ /30min	PV/YP 7.0/15.5	Chlorides 200mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
3	311.0	MS1616 Smith PDC	572.0	0.6	6.66	340@570.0m	244@2285m

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
0.0 to 0.0				

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks		
570.0 to 572.0 Reaming out rathole	0.03-0.17	0.3-.14	0.02	0.01	tr	tr	Bkgd Gas=0.10		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure	Depth
								xxxxkg/m ³	xxxxTVD
0.94	0.10		570-572						

Formation Tops

Formations	Prognosed		Actual	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)
Allochthon A	0	0	25.6	25.6
Allochthon B	405	405	385	384.79

Surface Csg Point	570	570			
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-22	Report No. 10
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Current Information

Time 06:00	Depth(MD) 809.0m	Depth(TVD) 808.8m	Progress 237.0 m	Formation Allochthon B	Status Drilling ahead @ 815mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 13.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
741.00	0.1 ⁰	0	740.78	10.51			
761.00	0.0 ⁰		760.78	10.53			
781.00	0.2 ⁰		780.78	10.56			

Summary of Previous 24 Hours

Conduct FIT @ 570mTVD. Continue to drill ahead at 809mMD.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type Gel Chem	Density 1080kg/ m ³	Viscosity 120	Fluid Loss to hole 0.0cm ³ /30min	PV/YP 7.0/15.5	Chlorides 200mg/L
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Bit and Casing Data

Bit No. 3	Size 311.0	Type MS1616 Smith PDC	Depth in 572.0	Hours 14.8	ROP(M/HR) 16.08	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
572.0 to 648.0	14.4	22.0	2	Ls+Sh
648.0 to 757.0	17.4	32.7	12.5	Ls+Sh
757.0 to 802.0	22.5	38.2	14.5	Sh+Ls
Peaks				
572.0 to 572.4	5.83	6.8	4.5	Ls
660.0 to 663.0	12.4	8.0	19.1	Ls
706.0 to 712.0	30.4	32.7	28.3	Ls+Sh
757.0 to 763.0	27.0	32.7	22.0	Ls
792.0 to 795.0	17.8	21.5	13.8	Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
572.0 to 648.0	0.21	0.15	0.03	0.03	tr	tr	Bkgd Gas=0.73
648.0 to 757.0	0.16	0.11	0.02	0.02	tr	tr	
757.0 to 802.0	2.72	1.93	0.34	0.34	0.09	0.02	
Peaks							
572.0 to 572.4	1.32	0.95	0.16	0.15	0.05	0.01	Peak
660.0 to 663.0	0.75	0.53	0.10	0.09	0.03	0.01	
706.0 to 712.0	0.41	0.33	0.04	0.04	0.01	tr	
757.0 to 763.0	8.66	5.95	0.88	0.82	0.28	0.12	

792.0 to 795.0		15.32		12.49		1.34	1.33	0.15	tr		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd 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)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805			
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-22	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
385.0m	Allochthon B Formation
572 – 590 18.0m	<p>Shale: 90%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.</p> <p>Limestone: 10%, light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace light brown chert, tight, no shows.</p>
590 – 740 150.0m	<p>Limestone: 80%, light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.</p> <p>Shale: 20%, dark - medium gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, grading siltstone.</p>
740 – 810 70.0m	<p>Shale: 70%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.</p> <p>Limestone: 30%, light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-23	Report No. 11
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Current Information

Time 06:00	Depth(MD) 1082.0m	Depth(TVD) 1081.8m	Progress 273.0 m	Formation Allochthon C	Status Drilling ahead @ 1085mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 14.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1021.00	0.1 ⁰	0	1020.78	11.38			
1041.00	0.0 ⁰		1040.78	11.40			
1061.00	0.2 ⁰		1060.78	11.43			

Summary of Previous 24 Hours

Continue to drill ahead at 1086mMD. High gas peak from 987m to 990m = 38.83% Total Gas.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type Gel Chem	Density 1100kg/ m ³	Viscosity 89	Fluid Loss to hole 0.0cm ³ /30min	PV/YP 20.0/18.0	Chlorides 2000mg/L
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Bit and Casing Data

Bit No. 3	Size 311.0	Type MS1616 Smith PDC	Depth in 572.0	Hours 30.3	ROP(M/HR) 16.96	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
802.0 to 905.0	29.0	49.0	10.1	Sh+Ls
905.0 to 986.0	28.7	49.4	5.0	Sh+Ls
986.0 to 1058.0	22.0	46.7	7.9	Sh+Ss+Ls
1058.0 to 1080.0	10.7	32.4	1.15	Ss+Sh
 Peak 987 to 990	 12.2	 20.8	 8.7	 Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
802.0 to 905.0	1.88	1.47	0.17	0.18	0.04	0.03	Bkgd Gas=2.00
905.0 to 986.0	1.18	0.94	0.11	0.11	0.03	0.002	
986.0 to 1058.0	2.18	1.81	0.16	0.16	0.04	0.009	
1058.0 to 1080.0	1.55	1.25	0.13		0.04		
 Peak 987 to 990	 38.83	 34.62	 2.01	 1.91	 0.21	 0.07	 Peak

Trip	Bkgrd	Pumps	Depth	Conn Gas	Bkgd	Pumps	Depth	Est. Pore Pressure	Depth
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Gas %	Gas%	off (hrs)	m		Gas	off (hr)		xxxxkg/m3	xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-23	Wellsite Geologist Roland Strickland
Interval & Thickness	Description	
385.0m	Allochthon B Formation	
810 – 870 60.0m	<p>Shale: 70%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.</p> <p>Limestone: 30%, light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p>	
870 – 980 110.0m	<p>Shale: 80%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, slightly calcareous, micro micaceous, grading siltstone.</p> <p>Limestone: 20%, off white, buff, light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.</p>	
980 – 1000 20.0m	<p>Shale: 70%, dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, slightly calcareous, micro micaceous, grading siltstone.</p> <p>Limestone: 30%, off white, buff, light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, firm - hard, in part brittle, frequent fractures with white & clear calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.</p> <p>(Total Gas from 987m to 990m = 38.83%) C1=34.62%; C2=2.01%; C3=1.91%; C4=0.21%; C5=0.07%.</p>	
1005m	Allochthon C Formation	

<p>1000 – 1020 20.0m</p>	<p>Shale: 50%, dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite, grading siltstone. Limestone: 30%, buff, off white, light brown, mudstone, micro crystalline to crystalline, frequent white chalky, firm to hard, occasional fine disseminated pyrite, tight, no shows. Sandstone: 20%, medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green seritized serpentine, occasional carbonaceous specks, tight, no shows.</p>
<p>1020 – 1080 60.0m</p>	<p>Sandstone: 75%, medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green seritized serpentine, occasional carbonaceous specks, frequent white chalky limestone stringers, tight, no shows. Shale: 23%, dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite, grading siltstone. Limestone: 2%, buff, off white, light brown, mudstone, micro crystalline to crystalline, frequent white chalky, firm to hard, occasional fine disseminated pyrite, tight, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-24	Report No. 12
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Current Information

Time 06:00	Depth(MD) 1113.0m	Depth(TVD) 1112.8m	Progress 31.0 m	Formation Allochthon C	Status Washing and reaming @ 620mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 14.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1061.00	0.2 ⁰	0	1060.78	11.43			
1081.00	0.1 ⁰		1080.78	11.49			
1101.00	0.6 ⁰		1100.78	11.61			

Summary of Previous 24 Hours

Continue to drill ahead at 1113m. POOH to change Bit. Condition mud and circulate. POOH and flow check @ 1095m, 960m & 547m. Function test blind rams. Directional work, drain motor, break bit, install new bit. Make up BHA & RIH to casing shoe. Flow check. Slip & cut 15m of drilling line. Directional work, pulse test tool. Ream & clean hole from 576m to 636m.

Operations Forecast (next 24 Hours)

Continue to ream & RIH to 1113mMD. Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type Gel Chem	Density 1130kg/ m3	Viscosity 82	Fluid Loss to hole 7.0cm ³ /30min	PV/YP 22.0/23.0	Chlorides 1900mg/L
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Bit and Casing Data

Bit No. 3	Size 311.0	Type MS1616 Smith PDC	Depth in 572.0	Hours 35.3	ROP(M/HR) 15.32	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m) 1080.0 to 1113.0	Average ROP m/hr 7.5	Max ROP 23.3	Min ROP 1.76	Remarks Ss+Sh
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Hydrocarbon Data

Interval(m) 1080.0 to 1113.0	TG % 0.92	%C1 0.72	%C2 0.08	%C3 0.04	%C4 0.03	%C5 0.02	HYDC Remarks Bkgd Gas=0.92		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
3.07	0.33	12.5	572						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>	<u>Actual</u>
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	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-24	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1080 – 1113 33.0m	<p>Sandstone: 75%, medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green seritized serpentine, occasional carbonaceous specks, frequent white chalky limestone stringers, flysch derived, tight, no shows.</p> <p>Shale: 25%, medium to light gray, firm to hard, blocky to platy, silty, slightly calcareous, frequent fine disseminated pyrite, occasional slickenside, common cross cutting very thin calcite veins.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-25	Report No. 13
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Current Information

Time 06:00	Depth(MD) 1113.0m	Depth(TVD) 1112.8m	Progress 0.0 m	Formation Allochthon C	Status Washing and reaming @ 1005mMD.
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 17.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1061.00	0.2 ⁰	0	1060.78	11.43			
1081.00	0.1 ⁰		1080.78	11.49			
1101.00	0.6 ⁰		1100.78	11.61			

Summary of Previous 24 Hours

Ream & clean hole from 576m to 823m. Laydown 20 singles of drill pipe with flow check @ 560, 698m & 822m. Trip in hole with 10 stands. Continue to ream and clean from 823m to 1004m.

Operations Forecast (next 24 Hours)

Continue to ream & clean to 1113mMD. Drill ahead in the 311mm section as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type Gel Chem	Density 1140kg/ m3	Viscosity 104	Fluid Loss to hole 6.0cm ³ /30min	PV/YP 25.0/22.0	Chlorides 1500mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
4	311.0	MSF 716 Reed PDC	1113.0			

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		
Ream from 572 to 630m	1.18	0.90	0.12	0.12	0.03	0.01	Bkgd Gas=1.56		
Ream from 631 to 840m	2.11	1.66	0.24	0.23	0.08	0.02			
Ream from 841 to 988m	1.48	1.18	0.13	0.13	0.03	0.02			
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
5.71	1.95	2.33	841						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>	<u>Actual</u>

	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-26	Report No. 14
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Current Information

Time 06:00	Depth(MD) 1225.0m	Depth(TVD) 1224.8m	Progress 112.0 m	Formation Allochthon C	Status Circulate hole clean & POOH
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 18.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1191.00	0.5 ⁰	0	1190.78	12.42			
1201.00	0.4 ⁰		1200.78	12.50			
1211.00	0.5 ⁰		1210.78	12.58			

Summary of Previous 24 Hours

Continue to ream & clean to 1113mMD. Drill ahead from 1113m to 1225m. Circulate hole clean & POOH for new bit.

Operations Forecast (next 24 Hours)

Continue to POOH, layout BHA, directional work, drain motor, break bit, install new bit. Make up BHA & RIH. Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type Gel Chem	Density 1140kg/ m ³	Viscosity 92	Fluid Loss to hole 6.0cm ³ /30min	PV/YP 20.0/17.0	Chlorides 1400mg/L
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Bit and Casing Data

Bit No. 4	Size 311.0	Type MSF 716 Reed PDC	Depth in 1113.0	Hours 12.5	ROP(M/HR) 8.96	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1113 to 1146	17.0	26.0	4.2	Sh+Ss
1149 to 1196	11.6	25.4	2.4	Sh+Ss
1196 to 1225	6.4	16.3	1.6	Ss+Sh
peak 1146 to 1149	12.0	18.6	6.4	Ss+Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1113 to 1146	1.15	0.95	0.09	0.08	0.02	0.01	Bkgd Gas=3.56
1149 to 1196	5.36	4.94	0.19	0.19	0.02	0.00	
1196 to 1225	1.61	1.38	0.09	0.09	0.02	0.00	
peak 1146 to 1149	64.37	60.87	1.73	1.66	0.23	0.01	peak

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

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Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-26	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1113 – 1160 47.0m	<p>Sandstone: 50%, medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, frequent white chalky limestone stringers, fractures with clear calcite, no visible porosity, no shows.</p> <p>Shale: 50%, dark to medium gray, black, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p> <p>(Total Gas from 1146m to 1149m = 64.37%) C1=60.87%; C2=1.73%; C3=1.66%; C4=0.23%; C5=0.01%.</p>
1160 – 1220 60.0m	<p>Shale: 65%, dark to medium gray, black, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p> <p>Sandstone: 35%, medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, occasional white chalky limestone stringers, & disseminated fine grained pyrite, tight, no shows.</p>
1220 – 1225 5.0m	<p>Sandstone: 60%, medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, occasional white chalky limestone stringers, & disseminated fine grained pyrite, tight, no shows.</p> <p>Shale: 40%, dark to medium gray, black, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-27	Report No. 15
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Current Information

Time 06:00	Depth(MD) 1225.0m	Depth(TVD) 1224.8m	Progress 0.0 m	Formation Allochthon C	Status RIH @ 577mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 19.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1191.00	0.5 ⁰	0	1190.78	12.42			
1201.00	0.4 ⁰		1200.78	12.50			
1211.00	0.5 ⁰		1210.78	12.58			

Summary of Previous 24 Hours

Drill ahead to 1225m. Condition mud and circulate. POOH with flow checks @ 1225m, 1080m & 610m. RIH, well flowing very slightly on flow checks. Condition mud and circulate bottoms up. Weight up mud from 1140kg/m³ to 1160kg/m³. Weight up mud to 1170kg/m³, flow check, very slight flow. Circulate and condition and weight up mud to 1200kg/m³. Flow check. Circulate and condition mud and weight up to 1250kg/m³ for trip margin. POOH with flow check @ 1219m, 1002m, 586m and 338m.

Operations Forecast (next 24 Hours)

Continue to POOH, directional work, layout X/O subs, clean up filter sub, pickup X/O and dog sub. Make up new Reed bit and BHA. RIH with flow checks at regular intervals. Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type Gel Chem	Density 1250kg/ m ³	Viscosity 75	Fluid Loss to hole 7.0cm ³ /30min	PV/YP 25.0/16.0	Chlorides 1000mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
4	311.0	MSF 716 Reed PDC	1113.0	14.25	7.85	340@570.0m	244@2285m
5	311.0	MSF 813S- A1C	1225.0				

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1208 to 1225 peak	6.1	8.3	2.1	Ss+Sh
1223 to 1224	3.2	5.3	1.6	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1208 to 1225 peak	1.57	1.31	0.11	0.11	0.02	0.01	Bkgd Gas=1.56
1223 to 1224	2.78	2.47	0.14	0.13	0.03	0.01	peak

Trip Gas % 6.02	Bkgrd Gas% 0.96	Pumps off (hrs) 4.5	Depth m 1225	Conn Gas	Bkgd 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)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-28	Report No. 16
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Current Information

Time 06:00	Depth(MD) 1277.0m	Depth(TVD) 1276.8m	Progress 52.0 m	Formation Allochthon C	Status Drilling ahead @ 1277mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 20.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1241.00	0.2 ⁰	0	1240.78	12.69			
1251.00	0.4 ⁰		1250.78	12.74			
1261.00	0.5 ⁰		1260.78	12.82			

Summary of Previous 24 Hours

Continue to RIH. Pick up kelly at 1197m and wash to bottom @ 1225m. Drill ahead to 1277m.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type Gel Chem	Density 1255kg/ m ³	Viscosity 73	Fluid Loss to hole 6.8cm ³ /30min	PV/YP 24.0/16.0	Chlorides 1050mg/L
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Bit and Casing Data

Bit No. 5	Size 311.0	Type MSF 813S- A1C	Depth in 1225.0	Hours 15.0	ROP(M/HR) 3.46	Last CSG(size/Depth) 340@570.0m Next CSG(size/Depth) 244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m) 1225 to 1277	Average ROP m/hr 4.1	Max ROP 11.1	Min ROP 0.4	Remarks Ss+Sh
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Hydrocarbon Data

Interval(m) 1225 to 1277	TG % 0.79	%C1 0.63	%C2 0.07	%C3 0.06	%C4 0.01	%C5 tr	HYDC Remarks Bkgd Gas=0.78
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Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
3.98	1.10	23	572						
8.40	1.10	2.5	1089						
6.10	1.26	1.0	1225						

Formation Tops

Formations	Prognosed		Actual	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)
Allochthon A	0	0	25.6	25.6

Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-28	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1225 – 1275 50.0m	<p>Sandstone: 60%, medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments, disseminated fine grained pyrite, tight, no shows.</p> <p>Shale: 40%, medium to dark gray, light gray, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-29	Report No. 17
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Current Information

Time 06:00	Depth(MD) 1292.0m	Depth(TVD) 1291.8m	Progress 15.0 m	Formation Allochthon C	Status Drilling ahead @ 1292mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 21.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1261.00	0.5 ⁰	0	1260.78	12.82			
1271.00	0.4 ⁰		1270.78	12.90			
1281.00	0.8 ⁰		1280.78	13.00			

Summary of Previous 24 Hours

Drill ahead to 1290m. POOH & flow check at 1290m, 1125m, 984m, 628m & 352m. Continue to trip out of hole. Break out bit & dog sub. Pick up new bit & new dog sub & make up BHA. RIH & flow check at 549m & 714m. Continue to RIH washing last 2 singles to bottom. Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type Gel Chem	Density 1250kg/ m3	Viscosity 76	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 24.0/15.0	Chlorides 1150mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)
5	311.0	MSF 813S-AIC	1225.0	20.0	3.25	340@570.0m
6	311.0	Smith Tri-Cone GF135V0D	1290.0			244@2285m

Rate of Penetration (Meters/Hour)

Interval(m) 1277 to 1290.8	Average ROP m/hr 3.36	Max ROP 9.1	Min ROP 0.5	Remarks Ss+Sh+Ls
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Hydrocarbon Data

Interval(m) 1277 to 1290.8	TG % 0.90	%C1 0.56	%C2 0.07	%C3 0.06	%C4 0.01	%C5 tr	HYDC Remarks Bkgd Gas=0.80
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Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
10.86	1.40	11.7	714						
9.40	1.65	1.0	1290						

Formation Tops

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<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
<u>MWD Sensors Depths:</u> Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-29	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1275 – 1280 5.0m	<p>Sandstone: 60%, medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments, disseminated fine grained pyrite, tight, no shows.</p> <p>Shale: 40%, medium to dark gray, light gray, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>
1280 – 1290 10.0m	<p>Sandstone: 40%, medium - dark gray, mottled gray, light gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments, occasional disseminated fine grained pyrite, tight, no shows.</p> <p>Shale: 40%, medium to dark gray, light gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional disseminated pyrite, frequent slickenside, abundant cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p> <p>Limestone: 20%, medium to light brown, gray brown, mudstone, micro crystalline to crystalline, very siliceous matrix, hard, brittle, fractures with white calcareous stringers, tight, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-09-30	Report No. 18
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Current Information

Time 06:00	Depth(MD) 1337.0m	Depth(TVD) 1336.8m	Progress 45.0 m	Formation Allochthon C	Status Drilling ahead @ 1337mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 22.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1301.00	0.3 ⁰	0	1300.78	13.24			
1311.00	0.1 ⁰		1310.78	13.27			
1321.00	0.2 ⁰		1320.78	13.30			

Summary of Previous 24 Hours

Drill ahead from 1292m to 1337m.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type Gel Chem	Density 1250kg/ m ³	Viscosity 80	Fluid Loss to hole 6.8cm ³ /30min	PV/YP 29.0/15.5	Chlorides 1250mg/L
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Bit and Casing Data

Bit No. 6	Size 311.0	Type Smith Tri- Cone GF135V0D 1V	Depth in 1290.0	Hours 20.7	ROP(M/HR) 2.27	Last CSG(size/Depth) 340@570m Next CSG(size/Depth) 244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1291 to 1336 Peaks	2.90	8.95	1.1	Ss+Sh
1300.2 to 1301.2	2.8	3.8	1.8	Ss
1310.1 to 1311.1	2.8	3.2	2.2	Ss

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1291 to 1336 Peaks	0.48	0.38	0.04	0.04	0.01	tr	Bkgd Gas=0.48
1300.2 to 1301.2	1.29	1.14	0.07	0.06	0.01	tr	Peaks
1310.1 to 1311.1	1.31	1.17	0.07	0.06	0.01	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
2.24	0.79	1.0	1290.8						

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-09-30	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1290 – 1305 15.0m	<p>Sandstone: 60%, medium - dark gray, mottled gray, light gray, clear, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular to angular, mainly quartz, strongly consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, trace bitumen staining, tight, no shows.</p> <p>Shale: 30%, medium to dark gray, gray brown, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p> <p>Limestone: 10%, medium to light brown, gray brown, mudstone, micro crystalline to crystalline, very siliceous matrix, hard, brittle, fractures with white calcareous stringers, tight, no shows.</p>
1305 – 1335 30.0m	<p>Sandstone: 75%, medium - dark gray, mottled gray, light gray, clear, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular to angular, mainly quartz, strongly consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, frequent fractures with white calcite veining, trace bitumen staining, 5% to 8% porosity, no shows.</p> <p>Shale: 25%, medium to dark gray, gray brown, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-01	Report No. 19
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Current Information

Time 06:00	Depth(MD) 1353.0m	Depth(TVD) 1352.8m	Progress 16.0 m	Formation Allochthon C	Status Drilling ahead @ 1353mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 23.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1321.00	0.2 ⁰	0	1320.78	13.30			
1331.00	0.2 ⁰		1330.78	13.34			
1341.00	0.2 ⁰		1340.78	13.37			

Summary of Previous 24 Hours

Drill ahead to 1341m. Condition mud & circulate prior to POOH for bit trip. Flow check @ 1331m, 1183m, 632m & 246m. Directional work, layout jars, break down dog sub & bit. Make up new bit & BHA & RIH. Function test VertiTrak @ 538m. Flow check @ 1300m, wash to bottom & pattern bit. Drill ahead to 1353m.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type Gel Chem	Density 1255kg/ m3	Viscosity 80	Fluid Loss to hole 7.6cm ³ /30min	PV/YP 28.0/15.0	Chlorides 1450mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
6	311.0	Smith Tri- Cone GF135V0D 1V	1290.0	27.0	1.89	340@570.0m	244@2285m
7		Reed Tri- Cone M4528	1341.0	6.0	2.16		

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1337 to 1341.5 New Bit	1.08	1.75	0.74	Ss+Sh
1341.5 to 1352	2.38	5.13	1.16	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1337 to 1341.5 New Bit	0.47	0.37	0.04	0.04	0.01	tr	Bkgd Gas=0.47
1341.5 to 1352	0.92	0.78	0.06	0.05	0.01	tr	

Trip	Bkgrd	Pumps	Depth	Conn Gas	Bkgrd	Pumps	Depth	Est. Pore Pressure	Depth
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Gas %	Gas%	off (hrs)	m		Gas	off (hr)		xxxxkg/m3	xxxxTVD
9.78	0.47	11.9	1341.5						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-01	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1335 – 1340 5.0m	<p>Sandstone: 80%, medium - light gray, mottled gray, dark gray, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, frequent fractures with white calcite veining, 5% to 8% porosity, no shows. (Abundant rock flour)</p> <p>Shale: 20%, medium to dark gray, gray brown, firm to very hard, in part brittle, blocky to platy, splintery, silty, siliceous + calcareous matrix, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>
1340 – 1350 10.0m	<p>Sandstone: 80%, off white, medium - light gray, mottled gray, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, occasional white friable quartz grains, trace bitumen staining, 5% to 10% intergranular porosity, no shows.</p> <p>Shale: 20%, medium to dark gray, green gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-03	Report No. 21
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Current Information

Time 06:00	Depth(MD) 1412.0m	Depth(TVD) 1411.8m	Progress 15.0 m	Formation Allochthon C	Status Drilling ahead @ 1412mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 25.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1381.00	0.1 ⁰	0	1380.78	13.43			
1391.00	0.1 ⁰		1390.78	13.45			
1401.00	0.3 ⁰		1400.78	13.48			

Summary of Previous 24 Hours

Drill ahead to 1407mMD. Condition mud & circulate prior to POOH for bit trip. Flow check @ 1400m, 1262m & 243m. Continue to POOH. Layout jars and break down bit. Make up new PDC bit, pickup jars and RIH to 533m. Function test VertiTrak. Continue to RIH to 1387m & wash to bottom @ 1407m. Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type Gel Chem	Density 1250kg/ m3	Viscosity 86	Fluid Loss to hole 7.4cm ³ /30min	PV/YP 30.0/17.5	Chlorides 1700mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
7	311.0	Reed Tri-Cone M4528	1341.0	35.75	1.85	340@570.0m	244@2285m
8	311	Smith PDC MSI816	1407	1.3	3.07		

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1396 to 1407	1.70	3.10	0.90	Ss+Sh
1407 to 1410	4.50	7.90	1.11	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1396 to 1407	0.41	0.32	0.04	0.04	0.01	tr	Bkgd Gas=0.41
1407 to 1410	2.01	1.62	0.17	0.16	0.04	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
10.50	0.67	14	1407						

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-03	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1395 – 1405 10.0m	<p>Sandstone: 85%, medium - light gray, mottled gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic & shale fragments, occasional white friable quartz grains, abundant fractures filled with white calcite, occasional bronze mica flakes, 8% to 10% intergranular porosity, no shows.</p> <p>Shale: 15%, medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>
1405 – 1407 2.0m	<p>Sandstone: 75%, medium - light gray, mottled gray, off white, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic & shale fragments, frequent white friable quartz grains, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, brown gray, firm to hard, blocky to platy, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p> <p>(Btm's up sample at 1407m. POOH for new Bit # 8)</p>
1407 – 1410 3.0m	<p>Sandstone: 75%, medium - light gray, mottled gray, off white, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic & shale fragments, bronze mica flakes, frequent white friable quartz grains, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, brown gray, firm to hard, blocky to platy, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone, trace dark brown limestone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-04	Report No. 22
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Current Information

Time 06:00	Depth(MD) 1469.0m	Depth(TVD) 1468.8m	Progress 57.0 m	Formation Allochthon C	Status Circulate Btm's up @ 1469mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 26.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1431.00	0.4 ⁰	0	1430.78	13.62			
1441.00	0.3 ⁰		1440.78	13.69			
1451.00	0.4 ⁰		1450.78	13.75			

Summary of Previous 24 Hours

Drill ahead to 1438m. Check torque on liners & tighten. Drill ahead to 1453m. Change cap gasket on pump #2 & replace pop valve pins. Drill ahead to 1469mMD.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m3	Viscosity 84	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 31.0/15.5	Chlorides 1700mg/L
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Bit and Casing Data

Bit No. 8	Size 311	Type Smith PDC MSI816	Depth in 1407	Hours 17.5	ROP(M/HR) 3.54	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1407 to 1427	7.10	13.40	0.95	Ss+Sh
1427 to 1469	3.62	9.61	1.23	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1407 to 1427	0.80	0.67	0.06	0.06	0.02	tr	Bkgd Gas=0.54
1427 to 1469	0.51	0.43	0.04	0.04	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
				1.10	0.65	.08	1429		
				0.91	0.47	.10	1444		
				0.57	0.27	.17	1457		

Formation Tops

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<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
<u>MWD Sensors Depths:</u> Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-04	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1410 – 1425 15.0m	<p>Sandstone: 55%, medium - light gray, mottled gray, off white, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic & shale fragments, bronze mica flakes, frequent white friable quartz grains, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.</p> <p>Shale: 45%, dark to medium gray, brown gray, firm to hard, blocky to platy, elongated, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>
1425 – 1430 5.0m	<p>Sandstone: 70%, medium - light gray, mottled gray, off white, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, occasional friable, indurated, frequent grains of feldspar, lithic & shale fragments + serpentine, abundant bronze mica flakes, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.</p> <p>Shale: 30%, medium to dark gray, brown gray, firm to hard, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, silty.</p>
1430 – 1445 15.0m	<p>Sandstone: 75%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.</p> <p>Shale: 25%, medium to dark gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>

1445 – 1469 24.0m	<p>Sandstone: 80%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.</p> <p>Shale: 20%, medium to dark gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.</p>
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Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-05	Report No. 23
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Current Information

Time 06:00	Depth(MD) 1471.0m	Depth(TVD) 1470.8m	Progress 2.0 m	Formation Allochthon C	Status POOH @ 410mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 26.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1431.00	0.4 ⁰	0	1430.78	13.62			
1441.00	0.3 ⁰		1440.78	13.69			
1451.00	0.4 ⁰		1450.78	13.75			

Summary of Previous 24 Hours

Drill ahead to 1471m. Condition mud, circulate & POOH for pump pressure & ROP. Flow check @ 1456m, 1300m & 250m. Continue to POOH. Lay down roller reamer & VertiTrak. Break bit. Bit in gauge, but 4 nozzles were plugged with shale, sand & stator rubber. Pick up new roller reamer, VertiTrak & bit. RIH & flow check @ 121m. Slip & cut 11.4m of drilling line. Clean mud tanks. Function test VertiTrak, unable to make proper communications. POOH.

Operations Forecast (next 24 Hours)

Change VertiTrak. RIH & drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type KLA Shield	Density 1255kg/ m3	Viscosity 84	Fluid Loss to hole 7.0cm ³ /30min	PV/YP 36.0/15.5	Chlorides 1700mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth) Next CSG(size/Depth)
8	311	Smith PDC MSI816	1407	23.0	2.78	340@570.0m 244@2285m
9	311	Smith PDC MSI816	1471			

Rate of Penetration (Meters/Hour)

Interval(m) 1469 to 1471.5	Average ROP m/hr 1.80	Max ROP 6.40	Min ROP 0.90	Remarks Ss+Sh
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Hydrocarbon Data

Interval(m) 1469 to 1471.5	TG % 0.49	%C1 0.37	%C2 0.04	%C3 0.04	%C4 0.02	%C5 tr	HYDC Remarks Bkgd Gas=0.60		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
0.98	0.60	17	570						

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-05	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1469 – 1471 2.0m	<p>Sandstone: 65%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.</p> <p>Shale: 35%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, frequent fine disseminated pyrite, grading siltstone, trace dark brown limestone.</p> <p>(Btms Up Sample: POOH for pump pressure &ROP)</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-06	Report No. 24
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Current Information

Time 06:00	Depth(MD) 1473.0m	Depth(TVD) 1472.8m	Progress 2.0 m	Formation Allochthon C	Status Drill ahead @ 1473mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 27.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1431.00	0.4 ⁰	0	1430.78	13.62			
1441.00	0.3 ⁰		1440.78	13.69			
1451.00	0.4 ⁰		1450.78	13.75			

Summary of Previous 24 Hours

Continue to POOH. Lay down BHA & break down roller reamer & VertiTrak, Conduct a complete BOP test #4. Pick up BHA, new VertiTrak and make up bit. RIH & condition mud. Function test VertiTrak @ 415m. Pick up kelly @ 1410m & wash to bottom.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type KLA Shield	Density 1255kg/ m3	Viscosity 87	Fluid Loss to hole 6.4cm ³ /30min	PV/YP 34.0/16.5	Chlorides 1800mg/L
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Bit and Casing Data

Bit No. 9	Size 311	Type Smith PDC MSI816	Depth in 1471	Hours 1.5	ROP(M/HR) 1.33	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m) 1470.5 to 1472.2	Average ROP m/hr 2.15	Max ROP 4.38	Min ROP 1.03	Remarks Ss+Sh
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Hydrocarbon Data

Interval(m) 1470.5 to 1472.2	TG % 0.60	%C1 0.44	%C2 0.06	%C3 0.06	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.60		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
16.17	0.60	21	1471						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>		<u>Actual</u>
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	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-07	Report No. 25
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Current Information

Time 06:00	Depth(MD) 1491.0m	Depth(TVD) 1490.8m	Progress 18.0m	Formation Allochthon C	Status Drill ahead @ 1491mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 28.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1461.00	0.2 ⁰	0	1460.78	13.62			
1471.00	0.3 ⁰		1470.78	13.69			
1481.00	0.3 ⁰		1480.78	13.75			

Summary of Previous 24 Hours

Drill ahead from 1473 to 1491m.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1235kg/ m ³	Viscosity 73	Fluid Loss to hole 7.6cm ³ /30min	PV/YP 28.0/13.5	Chlorides 1600mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
9	311	Smith PDC MSI816	1471	1.5	0.84	340@570.0m	244@2285m

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1473.2 to 1490.0	1.18	3.00	0.30	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1473.2 to 1490.0	0.40	0.32	0.04	0.04	tr	tr	Bkgd Gas=0.40

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
				0.63	0.42	0.12	1481.6		

Formation Tops

Formations	Prognosed		Actual	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)
Allochthon A	0	0	25.6	25.6

Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-07	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1471 – 1480 9.0m	<p>Sandstone: 75%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic & serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, fractures with frequent cross cutting very thin calcite veins, micro micaceous, occasional pyrite nodules, grading siltstone, common slickenside.</p>
1480 – 1485 5.0m	<p>Sandstone: 70%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic & serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, fractures with frequent cross cutting very thin calcite veins, micro micaceous, occasional pyrite nodules, grading siltstone, common slickenside trace brown limestone.</p>
1485 – 1490 5.0m	<p>Sandstone: 75%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic & serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, fractures with frequent cross cutting very thin calcite veins, micro micaceous, occasional pyrite nodules, grading siltstone, common slickenside trace brown limestone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-08	Report No. 26
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Current Information

Time 06:00	Depth(MD) 1497.0m	Depth(TVD) 1496.8m	Progress 6.0m	Formation Allochthon C	Status Drill ahead @ 1497mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 28.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1461.00	0.2 ⁰	0	1460.78	13.62			
1471.00	0.3 ⁰		1470.78	13.69			
1481.00	0.3 ⁰		1480.78	13.75			

Summary of Previous 24 Hours

Drill ahead to 1494m. Condition mud, circulate & increase mud weight to 1250kg/m³. POOH & flow check @ 1481m, 1399m, 737m & 545m. Break out bit & lay out roller reamer. Pick up new roller reamer, make up bit & dog sub. RIH & shallow test VertiTrak @ 356m. Ream & wash from 1480m to 1494m. Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³	Viscosity 78	Fluid Loss to hole 7.0cm ³ /30min	PV/YP 29.0/13.5	Chlorides 1800mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
9	311	Smith PDC MSI816	1471	40.7	0.56	
10	311	Reed MSF716MC IC	1494	1.6	1.8	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1490.4 to 1494.5	0.57	2.07	0.27	Ss+Sh
1494.5 to 1497.0	3.0	5.0	0.26	Ss+Sh
Peaks				
1490.4 to 1492.2	0.91	2.0	0.67	Ss+Sh
1494.9 to 1496.0	2.98	5.0	0.26	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1490.4 to 1494.5	0.46	0.37	0.04	0.04	tr	tr	Bkgd Gas=0.46
1494.5 to 1497.0	1.13	0.88	0.11	0.11	0.02	tr	
Peaks							
1490.4 to 1492.2	1.52	1.40	0.06	0.06	0.01	0.01	Bkgd Gas=0.46
1494.9 to 1496.0	1.88	1.46	0.19	0.18	0.05	0.01	Bkgd Gas=0.94

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
5.39	0.46	11.5	1494						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-08	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1490 – 1492.4 2.4m	<p>Sandstone: 75%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, fractures with frequent cross cutting very thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone, common slickenside.</p>
1492.4 – 1494 1.6m	<p>Sandstone: 70%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone, common slickenside, trace brown hard limestone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-09	Report No. 27
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Current Information

Time 06:00	Depth(MD) 1519.0m	Depth(TVD) 1518.8m	Progress 22.0m	Formation Allochthon C	Status Drill ahead @ 1519mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 29.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1491.00	0.3 ⁰	0	1490.78	13.95			
1501.00	0.3 ⁰		1500.78	14.00			

Summary of Previous 24 Hours

Continue to drill ahead to 1519m.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³	Viscosity 78	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 29.0/13.5	Chlorides 1850mg/L
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Bit and Casing Data

Bit No. 10	Size 311	Type Reed MSF716MC IC	Depth in 1494	Hours 23.5	ROP(M/HR) 1.02	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1497.0 to 1515.4	1.88	8.26	0.26	Ss+Sh
1515.4 to 1519.0	0.92	2.28	0.14	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1497.0 to 1515.4	0.47	0.36	0.04	0.04	tr	tr	Bkgd Gas=0.29
1515.4 to 1519.0	0.29	0.23	0.03	0.03	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>		<u>Actual</u>	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)
Allochthon A	0	0	25.6	25.6
Allochthon B	405	405	385	384.79

Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					
MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-09	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1494 – 1500 6.0m	<p>Sandstone: 65%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 35%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone, common slickenside, trace brown hard limestone.</p>
1500 – 1505 5.0m	<p>Sandstone: 60%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 35%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, common slickenside, grading siltstone.</p> <p>Limestone: 5%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.</p>
1505 – 1515 10.0m	<p>Sandstone: 55%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, frequent fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 40%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.</p>

	Limestone: 5% , light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.
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Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-10	Report No. 28
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Current Information

Time 06:00	Depth(MD) 1530.0m	Depth(TVD) 1529.8m	Progress 11.0m	Formation Allochthon C	Status Drill ahead @ 1530mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 30.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1491.00	0.3 ⁰	0	1490.78	13.95			
1501.00	0.3 ⁰		1500.78	14.00			
1511.00	0.5 ⁰		1510.78	14.07			

Summary of Previous 24 Hours

Continue to drill ahead to 1523m. Condition mud & circulate bottoms up. POOH with flow checks @ 1510m, 1420m, 767m & 547m. Laydown VertiTrak and break bit. IADC grading: 8-8-BT-A-X-0-WT-PR. Pickup low speed VertiTrak & make up new bit. RIH. Ream & clean to bottom from 1509m to 1523m. Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m3	Viscosity 74	Fluid Loss to hole 6.2cm ³ /30min	PV/YP 31.0/13.5	Chlorides 1800mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
10	311	Reed MSF716MC	1494	29.25	0.99	
11	311	Smith GF128B	1523	6.0	1.16	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1519.0 to 1523.0	1.23	3.78	0.10	Ss+Sh
1523.0 to 1528.0	1.57	6.19	0.42	Ss+Sh
Peaks				
1518.8 to 1519.4	0.6	1.2	0.1	Ss+Sh
1522.8 to 1523.0	1.07	1.98	1.05	Ss+Sh
1526.1 to 1527.0	2.5	6.19	0.55	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1519.0 to 1523.0	1.03	0.94	0.04	0.04	tr	tr	Bkgd Gas=2.79
1523.0 to 1528.0	4.05	3.83	0.11	0.10	tr	tr	
Peaks							
1518.8 to 1519.4	2.76	2.58	0.07	0.07	tr	tr	
1522.8 to 1523.0	5.57	5.31	0.13	0.13	tr	tr	

1526.1 to 1527.0		16.05		15.39		0.33		0.31		tr		tr	
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3		Depth xxxxTVD			
6.16	0.45	11	1523										

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			

Remarks

MWD Sensors Depths: Dir=xxxx; Pressure=xx.xxm, Res=xx.xxm; GR=xxxxm;

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-10	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1515 – 1523 8.0m	<p>Sandstone: 55%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 40%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.</p> <p>Limestone: 5%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows. (Btm's up sample at 1523m) POOH for new bit and VertiTrak.</p>
1523 – 1525 2.0m	<p>Sandstone: 75%, medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & minor serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 23%, dark to medium gray, brown gray, firm to hard, in part brittle, blocky to platy, siliceous + calcareous matrix, occasional fractures with cross cutting thin calcite veins, micro micaceous, occasional thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.</p> <p>Limestone: 2%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.</p>
1525 – 1530 5.0m	<p>Sandstone: 70%, medium - light gray, mottled gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, indurated, in part friable, frequent grains of feldspar, lithic fragments & minor serpentine, abundant fractures filled with white calcite, 8% to 12% intergranular porosity, no shows. (From 1526.1m to 1527m: TG=16.1%; C1=15.39%;</p>

	<p>C2=0.33%; C3=0.31%; C4=trace; C5=trace).</p> <p>Shale: 28%, dark to medium gray, brown gray, firm to hard, in part brittle, blocky to platy, siliceous + calcareous matrix, occasional fractures with cross cutting thin calcite veins, micro micaceous, occasional thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.</p> <p>Limestone: 2%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.</p>
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Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Jeffrey Hearn	Date 2010-10-10	Report No. 28
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Current Information

Time 06:00	Depth(MD) 1587.0m	Depth(TVD) 1587m	Progress 68.0m	Formation Allochthon C	Status Drill ahead @ 1587mMD
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 30.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1491.00	0.3 ⁰	0	1490.78	13.95			
1501.00	0.3 ⁰		1500.78	14.00			

Summary of Previous 24 Hours

Continue to drill ahead to 1587m.

Operations Forecast (next 24 Hours)

Drill ahead in the 311mm section as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m3	Viscosity 78	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 29.0/13.5	Chlorides 1850mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
11	311	SMITH GF128B	1523	29	2.0	340@570.0m	244@2285m

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1497.0 to 1515.4	1.88	8.26	0.26	Ss+Sh
1515.4 to 1519.0	0.92	2.28	0.14	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1497.0 to 1515.4	0.47	0.36	0.04	0.04	tr	tr	Bkgd Gas=0.29
1515.4 to 1519.0	0.29	0.23	0.03	0.03	tr		
1528 to 1585	0.586	0.500	0.037	0.036	0.006	0.005	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd 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)
Allochthon A	0	0	25.6	25.6
Allochthon B	405	405	385	384.79

Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-10	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1515-1523 8.0m	<p>Sandstone: 55%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 40%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone, common slickenside, trace brown hard limestone.</p> <p>Limestone: 5%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.</p>
1523-1535 12.0m	<p>Sandstone: 65%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 35%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, common slickenside, grading siltstone.</p> <p>Limestone: 5%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.</p>
1535 – 1545 10.0m	<p>Sandstone: 55%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, frequent fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 40%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers +</p>

	<p>disseminated pyrite, common slickenside, grading siltstone.</p> <p>Limestone: 5%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.</p>
1545-1560 15.0m	<p>Shale: 80%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, common fractures with occasional cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.</p> <p>Sandstone: 20%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, frequent fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p>
1560.0-1570.0 10.0m	<p>Shale: 55%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, common slickenside, grading to siltstone.</p> <p>Sandstone: 25%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Limestone: 20%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.</p>
1570.0-1580.0 10.0m	<p>Shale: 80%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone, common slickenside, trace brown hard limestone.</p> <p>Sandstone: 15%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p> <p>Limestone: 5%, light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Jeffrey Hearn	Date 2010-10-12	Report No. 30
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Current Information

Time 06:00	Depth(MD) 1664.0m	Depth(TVD) 1643.7m	Progress 56.0m	Formation Allochthon C	Status On surf changing BHA
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 32.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1641	1.0 ⁰	0	1640.77	15.22			
1651	0.8 ⁰		1650.76	15.38			

Summary of Previous 24 Hours

Drill ahead to 1664, reduce WOB to assist in controlling inclination, trip at 1664 (21:40) for tricone bit.

Operations Forecast (next 24 Hours)

Run in hole with tricone, drill ahead.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³	Viscosity 78	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 29.0/13.5	Chlorides 1850mg/L
@ 1657m		1250	79	6.8	35/13	2050

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
11	311	SMITH GF128B	1523	29	2.0	
12	311	SMITH MS1616HEPX	1600m	21.75	2.9	
13	311	SMITH GF123B	1664			

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1642-1664	2.36	5.83	0.5	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1642-1664	0.430	0.364	0.030	0.028	tr	tr	Bkgd Gas=0.43
1651.2-1652.9	2.27	2.05	0.11	0.10	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

Formations	Prognosed		Actual	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)
Allochthon A	0	0	25.6	25.6

Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-12	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1640-1650 10.0m	<p>Shale: 80%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, common fractures with occasional cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers + disseminated pyrite, grading siltstone.</p> <p>Sandstone: 20%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, frequent fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p>
1650-1664 14.0m	<p>SS: 60%, lt to m gy, lt to m brn mot gy, off wh, slty to f gred, mod to w srt, sbang, predly clr ad fros qtz, rr dk gy, orange and dk brn cht, cons / sil & calcs cmt, v hd, ind, rr fracs fld / wh calc, tight to 3% intgran por, ns.</p> <p>Shale: 40%, dk to m gy, frm to hd, plty, sils + calcs mtx, slty, mic micas, occ rr thn carb strgs, com sks, com fracs, grdg to sltst.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Jeffrey Hearn	Date 2010-10-13	Report No. 31
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Current Information

Time 06:00	Depth(MD) 1702.0m	Depth(TVD) 1701.76	Progress 25m	Formation Allochthon C	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 32.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1661	0.5 ⁰	0	1660.76	15.66			
1671	0.5 ⁰		1670.76	15.38			
1681	0.4		1680.76				

Summary of Previous 24 Hours

Run in hole with tricone, drill ahead @ 11:30 Oct 13.

Operations Forecast (next 24 Hours)

Drill ahead.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³	Viscosity 78	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 29.0/13.5	Chlorides 1850mg/L
@ 1672m		1250	78	6.0	35/13	2050

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
11	311	SMITH GF128B	1523	29	2.0	
12	311	SMITH MS1616HEPX	1600m	21.75	2.9	
13	311	SMITH GF123B	1664			

Rate of Penetration (Meters/Hour)

Interval(m) 1664-1700	Average ROP m/hr 2.39	Max ROP 4.21	Min ROP 0.65	Remarks Ss+Sh
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Hydrocarbon Data

Interval(m) 1664-1700	TG % 0.725	%C1 0.640	%C2 0.040	%C3 0.035	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.43
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Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
6.06	0.73								

Formation Tops

Formations	Prognosed		Actual	
	Measured(m)	TVD(m)	Measured(m)	TVD(m)
Allochthon A	0	0	25.6	25.6

Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-13	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1665-1675 10.0m	<p>Shale: 50%, dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, common fractures with occasional cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers + disseminated pyrite, grading siltstone.</p> <p>Sandstone: 50%, medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, frequent fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.</p>
1675-1695 20.0m	<p>Sandstone: 80%, dark to medium gray, off white in part, silty to fine grained, moderate to well sorted, subangular, predominately clear ad frosted quartz, rare dark gray, common dark gray to dark brm chert, consolidated with silica & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p> <p>Shale: 20%, dark to medium gray, firm to hard, blocky, siliceous + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Jeffrey Hearn	Date 2010-10-14	Report No. 32
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Current Information

Time 06:00	Depth(MD) 1745.0m	Depth(TVD) 1744.76	Progress 44m	Formation Allochthon C	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 33.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1691	0.5 ⁰	0	1690.76	15.75			
1701	0.8 ⁰		1700.76	15.84			
1711	0.5 ⁰		1710.76	15.96			
1721	0.5		1720.76	16.05			

Summary of Previous 24 Hours

Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³	Viscosity 78	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 29.0/13.5	Chlorides 1850mg/L
@ 1719m		1250	75	6.4	32/12	2100

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
11	311	SMITH GF128B	1523	29	2.0	
12	311	SMITH MS1616HEPX	1600m	21.75	2.9	
13	311	SMITH GF123B	1664	40	2.0	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1700-1744	2.2	5.83	1.2	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks		
1700-1744	0.405	0.338	0.030	0.028	tr	tr	Bkgd Gas=0.40		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure	Depth
				0.66	0.45		1703	xxxxkg/m ³	xxxxTVD

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-13	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1005m	Allochthon C Formation
1695-1710 15.0m	<p>Shale: 60%, m-dk gray, hard, blocky, siliceous + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone</p> <p>Sandstone: 40%, medium gray, dark gray in part, off white, fine grained, silty in part, moderate to well sorted, subangular, predominately clear ad frosted quartz, occasional dark gray and dark brown chert, consolidated with silica & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p>
1710-1715 5.0m	<p>Sandstone: 65%, medium gray, dark gray in part, off white, fine grained, rare m-c grain poor-mod sorted, subangular to rounded in part, predominately clear ad frosted quartz, common light to dark gray chert, consolidated with silica & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p> <p>Shale: 35%, m-dk gray, hard, blocky, siliceous + calcareous matrix, silty, micro micaceous, common slickenside, common calcite filled fractures, grading to siltstone.</p>
1715-1725 10.0m	<p>Shale: 50%, dark gray to black, hard, blocky, rare platy, siliceous + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.</p> <p>Sandstone: 50%, medium gray to dark gray in part, off white, fine grained, rare m-c grain, moderate sorted, subangular to rounded in part, clear ad frosted quartz, abundant light to dark gray chert, common orange chert, common unconsolidated, silica & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p>
1725-1740 15.0m	<p>Sandstone: 65%, medium gray to dark gray, rare off white, fine grained, rare m-c grain, silty in part, moderate sorted, subangular to rounded in part, clear ad frosted quartz, abundant light to dark gray chert, abundant lithics, common unconsolidated, silica & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p> <p>Shale: 35%, dark gray to black, hard, blocky, rare platy, siliceous + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Jeffrey Hearn	Date 2010-10-15	Report No. 33
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Current Information

Time 06:00	Depth(MD) 1772.0m	Depth(TVD) 1773.76	Progress 39m	Formation Allochthon C	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 34.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1731	0.8 ⁰	0	1730.76	16.16			
1741	0.6 ⁰		1740.76	16.29			
1751	0.6 ⁰		1750.76	16.39			

Summary of Previous 24 Hours

Drill ahead to 1772 @ 21:00, Pull out of hole for bit.
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Operations Forecast (next 24 Hours)

Continue to run in hole, drill ahead ~ 9AM.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³	Viscosity 78	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 29.0/13.5	Chlorides 1850mg/L
@ 1764m		1250	78	6.8	36/13	2100

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
11	311	SMITH GF128B	1523	29	2.0	
12	311	SMITH MS1616HEPX	1600m	21.75	2.9	
13	311	SMITH GF123B	1664	53.75	2.01	
14	311	SMITH GF123B	1772			

Rate of Penetration (Meters/Hour)

Interval(m) 1744-1772	Average ROP m/hr 1.98	Max ROP 4.5	Min ROP 0.8	Remarks Ss+Sh
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Hydrocarbon Data

Interval(m) 1744-1772	TG % 0.444	%C1 0.373	%C2 0.031	%C3 0.029	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.44		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
				0.73	0.44		1753.2		

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-15	Wellsite Geologist Jeffrey Hearn
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Interval & Thickness	Description
1005m	Allochthon C Formation
1740-1745 5.0m	<p>Sandstone: 60%, medium gray to dark gray, rare off white, fine grained, rare m-c grain, silty in part, moderate sorted, subangular to rounded in part, clear ad frosted quartz, silica, dolomitic & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p> <p>Shale: 40%, dk gy to blk, firm to hd, blk, rr plty, sils, dolomitic + calcs mtx, slty, mic micas, occ carb str, com calc filled frac, grd to sltst.</p>
1745-1765 20m	<p>Shale: 90%, dk gy to blk, hd, blk, rr plty, sils, dolomitic + calcs mtx, slty, mic micas, occ carb str, com calc filled frac, grd to sltst.</p> <p>Sandstone: 10%, light to medium gray to dark gray, fine grained, silty in part, moderate sorted, subangular to rounded in part, clear ad frosted quartz, abundant light to dark gray chert, abundant lithics, silica, dolomitic & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p>
1765-1770 5.0m	<p>Sandstone: 70%, light to medium gray to dark gray in part, vf-f grained, rare m-c grain, silty in part, moderate sorted, subangular to rounded in part, clear ad frosted quartz, occasional variable coloured lithic chert, silica, dolomitic & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, black in part, firm to hard, soft in part, blocky to fissile, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Jeffrey Hearn P.Geol	Date 2010-10-16	Report No. 34
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Current Information

Time 06:00	Depth(MD) 1799.0m	Depth(TVD) 1798.76	Progress 21m	Formation Allochthon C	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 35.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
1761	0.7 ⁰	0	1760.76	16.16				
1771	0.4 ⁰		1770.76	16.29				
1781	0.5 ⁰		1780.76	16.39				

Summary of Previous 24 Hours

Drill ahead to 1799.0

Operations Forecast (next 24 Hours)

Drill ahead.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³	Viscosity 78	Fluid Loss to hole 7.8cm ³ /30min	PV/YP 29.0/13.5	Chlorides 1850mg/L
@ 1782m		1250	79	5.2	32/13	2000

Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
11	311	SMITH GF128B	1523	29	2.0	
12	311	SMITH MS1616HEPX	1600m	21.75	2.9	
13	311	SMITH GF123B	1664	53.75	2.01	
14	311	SMITH GF123B	1772	20.5		

Rate of Penetration (Meters/Hour)

Interval(m) 1772-1799	Average ROP m/hr 1.98	Max ROP 4.5	Min ROP 0.8	Remarks Ss+Sh
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Hydrocarbon Data

Interval(m) 1772-1799	TG % 0.410	%C1 0.350	%C2 0.070	%C3 0.030	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.41		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
3.41	0.41		1775	0.73	0.44		1772		

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227			
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-16	Wellsite Geologist Jeffrey Hearn P.Geol
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Interval & Thickness	Description
1005m	Allochthon C Formation
1770-1775 5m	<p>Sandstone: 70% light to medium gray to dark gray in part, fine grained, occasional m-c grain, silty in part, silty matrix, poor to occasional moderate sorted, angular to subangular to subrounded in part, clear ad frosted quartz, occasional variable coloured lithic chert, silica, dolomitic & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, black in part, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.</p>
1775-1790 15m	<p>Shale: 90%, dark to medium gray, black in part, firm to hard, soft in part, blocky to fissile, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.</p> <p>Sandstone: 10%, light to medium gray to dark gray, fine grained, silty in part, moderate sorted, subangular to rounded in part, clear ad frosted quartz, abundant light to dark gray chert, abundant lithics, silica, dolomitic & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p>
1790-1795 5.0m	<p>Sandstone: 70%, light to medium gray, vf-f grained, rare m-c grain, silty in part, poor to moderate sorted, angular to subangular to subrounded in part, predominately clear ad frosted quartz, common gray chert, silica, dolomitic & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, black in part, firm to hard, soft in part, blocky to fissile, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-18	Report No. 35
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Current Information

Time 06:00	Depth(MD) 1821.0m	Depth(TVD) 1820.76	Progress 22m	Formation Allochthon D	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 39.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1781	0.5 ⁰	0	1780.76	16.39			
1791	0.4 ⁰		1790.76	16.76			
1801	0.5 ⁰		1800.76	16.84			

Summary of Previous 24 Hours

Drill ahead to 1817.0m. Condition mud, circulate & POOH. Flow check at 1810m, 1701m, 904m & 353m out of the hole. Directional work, gauge reamer, break bit & make up new bit. RIH and pulse test VertiTrak @ 344m. Continue to RIH & drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 1816m	Viscosity 77	Fluid Loss to hole 6.0cm ³ /30min	PV/YP 34.0/13.0	Chlorides 1950mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
14	311	Smith GF23B	1772	31.75	1.42	340@570.0m	244@2285m
15	311	Smith GF30B	1817	2.0	2.0		

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1799-1821	1.42	3.95	1.04	Ss+Sh
1804.0-1804.5	2.8	1.5	1.05	Ss+Sh
1805.5-1806	2.8	1.5	1.05	Ss+Sh
1807.5-1808	2.8	1.5	1.05	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1799-1821	0.59	0.48	0.05	0.05	tr	tr	Bkgd Gas=0.59
Peaks							
1804.0-1804.5	0.65	0.58	0.03	0.03	tr	tr	
1805.5-1806	0.74	0.67	0.03	0.03	tr	tr	
1807.5-1808	0.74	0.68	0.03	0.03	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

4.69	1.50	8.5	1817						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-18	Wellsite Geologist Roland Strickland
Interval & Thickness	Description	
1603m	Allochthon D Formation	
1795-1805 10m	<p>Sandstone: 80% light to medium gray , mottled gray, very fine to fine grained, rare medium grain, poor to moderate sorted, angular to subangular, in part subround, predominately clear & frosted quartz, silty in part, common gray chert, silica & calcareous cement, very hard, indurated, abundant fractures filled with white calcite, tight to 3% intergranular porosity, no shows.</p> <p>Shale: 20%, dark to medium gray, trace black, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, occasional micro micaceous, frequent carbonaceous streaks, common calcite filled fractures, grading to siltstone.</p>	
1805-1815 10m	<p>Sandstone: 70%, medium - dark gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, rare gray chert, grains of feldspar, lithic fragments, mica & trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, trace black, firm to hard, blocky to platy, in part siliceous, dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, frequent calcite filled fractures, grading to siltstone.</p>	
1815-1817 2.0m	<p>Sandstone: 80%, medium to dark gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, rare gray chert, minor grains of feldspar & mica, abundant lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 20%, dark to medium gray, trace black, firm to hard, blocky to platy, siliceous, dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, frequent calcite filled fractures, common slickenside, grading to siltstone.</p> <p>(Btm's up sample at 1817m. POOH for new Bit)</p>	

<p>1817-1820 3.0m</p>	<p>Sandstone: 75%, medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar, mica, & lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, gray brown, firm to hard, blocky to platy, siliceous, dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous stringers, frequent calcite filled fractures, trace slickenside, grading to siltstone.</p>
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Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-19	Report No. 36
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Current Information

Time 06:00	Depth(MD) 1865.0m	Depth(TVD) 1864.76	Progress 44m	Formation Allochthon D	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 40.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1831	0.7 ⁰	0	1830.76	17.11			
1841	0.7 ⁰		1840.76	17.24			
1851	0.6 ⁰		1850.76	17.35			

Summary of Previous 24 Hours

Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1245kg/ m ³ @ 1842m	Viscosity 80	Fluid Loss to hole 5.5cm ³ /30min	PV/YP 30.0/13.0	Chlorides 1950mg/L
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Bit and Casing Data

Bit No. 15	Size 311	Type Smith GF30B	Depth in 1817	Hours 21.6	ROP(M/HR) 2.2	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1821-1865	2.2	5.33	1.14	Sh+Ss
1833.0-1834.5	2.2	3.95	1.87	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1821-1865	0.43	0.36	0.03	0.03	tr	tr	Bkgd Gas=0.43
Peak 1833.0-1834.5	1.54	1.43	0.05	0.05	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
				0.99	0.43	0.11	1842.5		

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-19	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1603m	Allochthon D Formation
1820-1830 10m	<p>Shale: 65%, medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, weak dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickenside, grading to siltstone.</p> <p>Sandstone: 35% medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, frequent friable, occasional grains of feldspar, mica & lithic fragments, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p>
1830-1840 10m	<p>Sandstone: 50%, medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 50%, medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, weak dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, occasional slickenside, grading to siltstone.</p>
1840-1845 5.0m	<p>Sandstone: 60%, medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 40%, medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, weak dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, occasional slickenside, grading to siltstone.</p>

<p>1845-1860 15.0m</p>	<p>Shale: 70%, medium to dark gray, gray brown, firm to hard, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, frequent slickenside, grading to siltstone.</p> <p>Sandstone: 30%, medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, occasional friable, common grains of feldspar, mica & lithic fragments, trace serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p>
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Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-20	Report No. 37
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Current Information

Time 06:00	Depth(MD) 1909.0m	Depth(TVD) 1908.76	Progress 44m	Formation Allochthon D	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 41.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1881	0.6 ⁰	0	1880.76	17.70			
1891	0.8 ⁰		1890.76	17.82			
1901	0.7 ⁰		1900.76	17.95			

Summary of Previous 24 Hours

Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1245kg/ m ³ @ 1886m	Viscosity 71	Fluid Loss to hole 5.5cm ³ /30min	PV/YP 30.0/10.0	Chlorides 1950mg/L
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Bit and Casing Data

Bit No. 15	Size 311	Type Smith GFi30B	Depth in 1817	Hours 43.0	ROP(M/HR) 2.13	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1865-1909	2.14	4.55	1.08	Sh+Ss
1878.0-1880.0	2.10	3.30	1.50	Ss+Sh
1883.0-1884.5	2.10	4.50	1.40	Ss+Sh
1904.0-1905.5	2.10	2.90	1.60	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1865-1909 Peaks	0.37	0.32	0.03	0.03	tr	tr	Bkgd Gas=0.37
1878.0-1880.0	2.48	2.35	0.06	0.05	tr	tr	
1883.0-1884.5	0.83	0.75	0.04	0.03	tr	tr	
1904.0-1905.5	0.83	0.75	0.04	0.03	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-20	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1603m	Allochthon D Formation
1860-1870 10m	<p>Shale: 70%, dark to medium gray, gray brown, firm to hard, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, frequent slickenside, grading to siltstone.</p> <p>Sandstone: 30% medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate sorted, subangular, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, occasional friable, common grains of feldspar, mica & lithic fragments, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p>
1870-1880 10m	<p>Shale: 60%, dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickenside, grading to siltstone.</p> <p>Sandstone: 40%, medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p>
1880-1890 10.0m	<p>Sandstone: 50%, medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica & lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 50%, dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled</p>

	fractures, common slickenside, grading to siltstone.
1890-1900 10.0m	<p>Shale: 60%, dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous streaks, frequent calcite filled fractures, occasional slickenside, grading to siltstone.</p> <p>Sandstone: 40%, medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica & lithic fragments, trace serpentine, occasional fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p>
1900-1905 5.0m	<p>Shale: 80%, dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous streaks, abundant calcite filled fractures, frequent slickensides, grading to siltstone.</p> <p>Sandstone: 20%, medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica & lithic fragments, trace serpentine, occasional fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-21	Report No. 38
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Current Information

Time 06:00	Depth(MD) 1939.0m	Depth(TVD) 1938.76	Progress 30m	Formation Allochthon D	Status Layout BHA & begin BOP testing
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 42.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1911	0.5 ⁰	0	1910.76	18.06			
1921	0.5 ⁰		1920.76	18.14			
1931	0.5 ⁰		1930.76	18.23			

Summary of Previous 24 Hours

Drill ahead to 1939m. Condition mud circulate & POOH. Conduct regular flow checks. Break bit, layout directional tools & VertiTrak. Pull wear bushing.
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Operations Forecast (next 24 Hours)

Rig up to conduct BOP testing. Make up BHA & RIH to drill ahead.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 1929m	Viscosity 75	Fluid Loss to hole 5.5cm ³ /30min	PV/YP 31.0/13.0	Chlorides 1900mg/L
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Bit and Casing Data

Bit No. 15	Size 311	Type Smith GF30B	Depth in 1817	Hours 58.9	ROP(M/HR) 2.07	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1910-1939	1.90	8.48	1.18	Ss+Sh
1916.0-1917.0	1.90	3.38	1.42	Ss+Sh
1917.5-1919.5	2.00	3.31	1.40	Ss+Sh
1927.5-1928.5	2.02	3.34	1.45	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1910-1939	0.50	0.43	0.04	0.03	tr	tr	Bkgd Gas=0.50
Peaks							
1916.0-1917.0	0.64	0.58	0.03	0.03	tr	tr	
1917.5-1919.5	1.74	1.62	0.06	0.05	tr	tr	
1927.5-1928.5	1.44	1.32	0.06	0.05	tr	tr	

Trip Gas %	Bkgd Gas %	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

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Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-20	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1603m	Allochthon D Formation
1905-1915 10m	<p>Shale: 55%, dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous streaks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p> <p>Sandstone: 45% medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p>
1915-1925 10m	<p>Sandstone: 63%, medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, disseminated fine grained pyrite, abundant fractures filled with white & clear calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 37%, dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, abundant carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p>
1925-1930 5.0m	<p>Shale: 55%, dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, abundant carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p> <p>Sandstone: 45%, medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, disseminated fine grained pyrite, abundant fractures filled with white</p>

	& clear calcite, 3% to 5% intergranular porosity, no shows.
1930-1939 9.0m	<p>Sandstone: 65%, medium to light gray, mottled gray, off white, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, & lithic fragments, trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 35%, dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, abundant carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone. (POOH for new Bit & BOP testing)</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-22	Report No. 39
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Current Information

Time 06:00	Depth(MD) 1950.0m	Depth(TVD) 1949.76	Progress 11m	Formation Allochthon D	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 43.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1911	0.5 ⁰	0	1910.76	18.06			
1921	0.5 ⁰		1920.76	18.14			
1931	0.5 ⁰		1930.76	18.23			
1941	0.6 ⁰		1940.76	18.33			

Summary of Previous 24 Hours

Pressure Test BOP's for eleven (11) complete successful tests. Pickup BHA & make up new bit & dog sub. RIH & shallow test VertiTrak. Slip& cut drill line. Continue to RIH & wash last single pipe to bottom @ 1939m. Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type KLA Shield	Density 1255kg/ m3 @ 1939m	Viscosity 120	Fluid Loss to hole 5.5cm ³ /30min	PV/YP 34.0/13.0	Chlorides 1900mg/L
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Bit and Casing Data

Bit No. 16	Size 311	Type Smith MI716	Depth in 1939	Hours 5.3	ROP(M/HR) 2.06	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1939-1949	1.10	13.93	0.30	Sh+Ss
1941.5-1943.0	4.00	12.71	2.50	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1939-1949	0.68	0.57	0.05	0.04	tr	tr	Bkgd Gas=0.68
Peak 1941.5-1943.0	2.10	1.91	0.09	0.08	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
1.52	0.22	19	373						
9.65	0.59	2	1153						
3.73	0.80	1	1939						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-22	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1603m	Allochthon D Formation
1939-1945 6m	<p>Shale: 90%, dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p> <p>Sandstone: 10% medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, occasional grains of feldspar, mica, lithic fragments & trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-23	Report No. 40
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Current Information

Time 06:00	Depth(MD) 1960.0m	Depth(TVD) 1959.76	Progress 10m	Formation Allochthon D	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 44.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1931	0.5 ⁰	0	1930.76	18.23			
1941	0.6 ⁰		1940.76	18.33			
1951	0.7 ⁰		1950.76	18.44			

Summary of Previous 24 Hours

Drill ahead to 1960m. Condition mud & circulate. POOH, conducting regular flow checks. Layout VertiTrak tool and pickup new VertiTrak. Make up new bit and RIH. Shallow test directional tools. Continue to RIH & wash to bottom from 1290m to 1960m.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 1958m	Viscosity 78	Fluid Loss to hole 5.4cm ³ /30min	PV/YP 34.0/14.0	Chlorides 1900mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth) Next CSG(size/Depth)
16	311	Smith MI716	1939	21.0	1.06	340@570.0m 244@2285m
17	311	Smith GFI23B	1960	0.1		

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1949-1960	1.40	9.35	0.47	Sh+Ss
1958.5-1959.0	1.42	2.11	0.38	Ss+Sh
1960	1.43	2.14	0.36	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1949-1960 Peaks	0.51	0.43	0.04	0.03	tr	tr	Bkgd Gas=0.51
1958.5-1959.0	2.03	1.91	0.06	0.03	tr	tr	
1960	1.18	1.09	0.04	0.04	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure	Depth
								xxxxkg/m ³	xxxxTVD
3.43	0.12	9.5	1955						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949			
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-23	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1603m	Allochthon D Formation
1945-1955 10m	<p>Sandstone: 70% medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, disseminated fine grained pyrite, occasional fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous stringers, occasional calcite filled fractures, frequent slickensided, grading to siltstone.</p>
1955-1960 5m	<p>Sandstone: 80% medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 20%, dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone. (3-5% burnt cuttings)</p> <p>POOH @ 1960m for new Bit.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland	Date 2010-10-24	Report No. 41
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Current Information

Time 06:00	Depth(MD) 1998.0m	Depth(TVD) 1997.76	Progress 38m	Formation Allochthon D	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 45.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
1961	0.7 ⁰	0	1960.76	18.23			
1971	0.6 ⁰		1970.76	18.33			
1981	0.8 ⁰		1980.76	18.44			

Summary of Previous 24 Hours

Drill ahead to 1998m.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 1975m	Viscosity 74	Fluid Loss to hole 6.2cm ³ /30min	PV/YP 30.0/13.0	Chlorides 1900mg/L
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Bit and Casing Data

Bit No. 17	Size 311	Type Smith GFI23B	Depth in 1960	Hours 0.1	ROP(M/HR) 1.70	Last CSG(size/Depth) 340@570.0m Next CSG(size/Depth) 244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1960-1998	1.70	4.43	0.79	Ss+Sh
1967.5-1968.5	1.72	3.78	1.08	Ss+Sh
1976.5-1978.5	1.74	3.82	1.03	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1960-1998	0.40	0.35	0.02	0.02	tr	tr	Bkgd Gas=0.40
Peaks							
1967.5-1968.5	15.27	14.73	0.29	0.24	tr	tr	
1976.5-1978.5	0.81	0.71	0.05	0.05	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968(Pos)	1967.8	
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-24	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1603m	Allochthon D Formation
1960-1965 5m	<p>Sandstone: 75% medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar, mica, lithic fragments & trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone, trace light brown limestone.</p>
1968m	Goose (American) Tickle Group (Pos)
1965-1970 5m	<p>Sandstone: 70% medium to light gray, mottled gray, gray green, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace serpentine, abundant fractures filled with white & clear calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p> <p>(At 1967.5-1968.5m: TG=15.27%; C1=14.73%; C2=0.29%; C3=0.24%; C4=trace; C5=trace)</p>
1970-1980 10m	<p>Sandstone: 73% medium to light gray, mottled gray, gray green, off white, dark gray, clear, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace glauconite, frequent fractures filled with white & clear calcite, 3% to 6%</p>

	<p>intergranular porosity, no shows.</p> <p>Shale: 27%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p>
1980-1985 5m	<p>Sandstone: 60% medium to light gray, gray green, off white, dark gray, clear, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace glauconite, frequent fractures filled with white & clear calcite, 3% to 6% intergranular porosity, no shows.</p> <p>Shale: 40%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p>
1985-1995 10m	<p>Sandstone: 75% medium to light gray, gray green, off white, dark gray, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional friable, very silty, occasional grains of feldspar, mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geol.	Date 2010-10-25	Report No. 42
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Current Information

Time 06:00	Depth(MD) 2043.0m	Depth(TVD) 2042.76	Progress 45m	Formation Goose (American) Tickle	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 46.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2011	0.5 ⁰	0	2010.76	19.12			
2021	0.6 ⁰		2020.76	19.22			
2031	0.8 ⁰		2030.76	19.34			

Summary of Previous 24 Hours

Drill ahead to 2043m.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1245kg/ m ³ @ 2016m	Viscosity 80	Fluid Loss to hole 6.0cm ³ /30min	PV/YP 32.0/14.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
17	311	Smith GFI23B	1960	44.9	1.84	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
1998-2022	1.90	4.56	1.22	Ss+Sh
2022-2043	1.92	3.39	0.81	Ss+Sh
2005.0-2007.0	1.92	2.41	1.57	Ss+Sh
2033.0-2034.0	1.94	2.36	1.71	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
1998-2022	0.45	0.39	0.03	0.03	tr	tr	Bkgd Gas=0.58
2022-2043	0.71	0.62	0.04	0.04	tr	tr	
Peaks 2005.0-2007.0	1.57	1.48	0.04	0.04	tr	tr	
2033.0-2034.0	1.09	0.99	0.04	0.04	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-25	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1968m	Goose (American) Tickle Group
1995-2000 5m	<p>Sandstone: 60% medium to dark gray, speckled brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz + feldspar, consolidated with silica, dolomite & calcareous cement, firm to hard, moderate indurated, frequent friable, very silty, abundant bronze mica matrix, common lithic fragments & trace glauconite, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p> <p>Shale: 40%, medium gray brown, trace green gray, firm to hard, blocky to platy, earthy, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, occasional calcite filled fractures, trace slickensided, grading to fine grained siltstone.</p>
2000-2020 20m	<p>Sandstone: 70% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, abundant medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, trace friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p>
2020-2025 5m	<p>Shale: 60%, dark to medium gray, green gray, firm to hard, frequent brittle, blocky to platy, earthy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p> <p>Sandstone: 40% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround,</p>

	mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.
2025-2040 15m	<p>Sandstone: 57% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.</p> <p>Shale-Siltstone: 43%, dark to medium gray, green gray, firm to hard, frequent brittle, blocky to platy, earthy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, common slickensided, grading to siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geol.	Date 2010-10-26	Report No. 43
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Current Information

Time 06:00	Depth(MD) 2079.0m	Depth(TVD) 2078.76	Progress 36m	Formation Goose (American) Tickle	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 47.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2041	0.8 ⁰	0	2040.76	19.48			
2051	0.5 ⁰		2050.76	19.59			
2061	0.5 ⁰		2060.76	19.68			

Summary of Previous 24 Hours

Drill ahead to 2079m.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 2060m	Viscosity 78	Fluid Loss to hole 6.2cm ³ /30min	PV/YP 34.0/14.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 340@570.0m Next CSG(size/Depth)244@2285m
17	311	Smith GFI23B	1960	66.6	1.78	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2043-2054.5	1.70	3.83	0.81	Ss+Sh
2054.5-2069	1.72	6.86	0.84	Ss+Sh
2069.0-2079	1.70	3.00	0.41	Ss+Sh
2054.5-2055.5	1.71	3.38	1.51	Ss+Sh
2056.0-2057.0	1.70	6.86	1.27	Ss+Sh
2058.0-2059.5	1.73	5.78	1.43	Ss+Sh
2065.0-2066.0	1.70	2.46	0.74	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2043-2054.5	0.71	0.62	0.04	0.04	tr	tr	Bkgd Gas=0.67
2054.5-2069	0.94	0.88	0.04	0.04	tr	tr	
2069.0-2079	0.67	0.61	0.03	0.03	tr	tr	
Peaks							
2054.5-2055.5	3.83	3.66	0.08	0.08	tr	tr	
2056.0-2057.0	3.98	3.83	0.07	0.07	tr	tr	
2058.0-2059.5	20.07	19.45	0.31	0.30	tr	tr	

2065.0-2066.0		2.33		2.20		0.06		0.06		tr		tr		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd 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)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-26	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1968m	Goose (American) Tickle Group
2040-2055 15m	<p>Sandstone: 70% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, frequent friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p>
2055-2060 5m	<p>Sandstone: 80% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weakly indurated, frequent friable with increase ROP, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 12% intergranular porosity, no shows.</p> <p>Shale: 20%, dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p> <p>(At 2058.0m-2059.5m: TG=20.07%; C1=19.45%; C2=0.31%; C3=0.30%; C4=trace; C5=trace)</p>
2060-2075 15m	<p>Sandstone: 70% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weakly indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 30%, dark to medium gray, green gray, gray brown, firm to</p>

	hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geol.	Date 2010-10-27	Report No. 44
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Current Information

Time 06:00	Depth(MD) 2090.0m	Depth(TVD) 2089.76	Progress 11m	Formation Goose (American) Tickle	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 48.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2061	0.5 ⁰	0	2060.76	19.68			
2071	0.3 ⁰		2070.76	19.75			
2081	0.3 ⁰		2080.76	19.80			

Summary of Previous 24 Hours

Drill ahead to 2086m. Circulate btm's up. POOH & conduct regular flow checks. Layout reamer & break bit. Layout directional tools, pickup new VertiTrak & make up new bit. RIH, slip & cut 16.5m of drilling line. Continue to RIH & wash last 2 singles to bottom. Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 2080m	Viscosity 74	Fluid Loss to hole 6.6cm ³ /30min	PV/YP 30.0/13.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth) Next CSG(size/Depth)
17	311	Smith	1960	70.5	1.78	340@570.0m 244@2285m
18	311	GFI23B Smith GF15B	2086	3.2	1.56	

Rate of Penetration (Meters/Hour)

Interval(m) 2079-2091	Average ROP m/hr 1.90	Max ROP 2.86	Min ROP 0.84	Remarks Ss+Sh
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Hydrocarbon Data

Interval(m) 2079-2091	TG % 0.58	%C1 0.52	%C2 0.03	%C3 0.03	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.52		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
3.15	0.58	10	2086						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949		1968	1967.8
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-27	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1968m	Goose (American) Tickle Group
2075-2085 10m	<p>Sandstone: 65% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, abundant lithic fragments & trace glauconite & chromite, minor disseminated pyrite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 35%, dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, occasional slickensided, grading to siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo.	Date 2010-10-28	Report No. 45
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Current Information

Time 06:00	Depth(MD) 2135.0m	Depth(TVD) 2134.76	Progress 45m	Formation Goose (American) Tickle	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 49.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2101	0.3 ⁰	0	2100.76	19.92			
2111	0.4 ⁰		2110.76	19.99			
21211	0.5 ⁰		2120.76	20.46			

Summary of Previous 24 Hours

Drill ahead. Change gasket on pump#1 & seat on pump #2. Continue to drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 2109m	Viscosity 76	Fluid Loss to hole 6.4cm ³ /30min	PV/YP 30.0/13.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No. 18	Size 311	Type Smith GF15B	Depth in 2086	Hours 24.0	ROP(M/HR) 2.04	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2091-2126	2.10	4.05	1.18	Ss+Sh
2126-2135	2.13	4.16	1.18	Ss+Sh
2112-2114	2.14	3.26	1.75	Ss+Sh
2127.5-2128	2.10	3.31	1.18	Ss+Sh
2129-2130	2.15	2.65	1.23	Ss+Sh
2131.5-2132	2.13	4.16	1.03	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2091-2126	0.40	0.36	0.02	0.02	tr	tr	Bkgd Gas=0.49
2126-2135	0.58	0.50	0.04	0.04	tr	tr	
Peaks							
2112-2114	0.99	0.89	0.04	0.04	tr	tr	
2127.5-2128	0.84	0.71	0.06	0.06	tr	tr	
2129-2130	1.12	1.03	0.04	0.04	tr	tr	
2131.5-2132	1.76	1.66	0.06	0.05	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure	Depth
								xxxxkg/m3	xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-28	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1968m	Goose (American) Tickle Group
2085-2090 5m	<p>Sandstone: 60% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica & lithic fragments, trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 40%, dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, occasional slickensided, grading to siltstone.</p>
2090-2095 5m	<p>Shale: 60%, dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p> <p>Sandstone: 40% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica & lithic fragments, trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p>
2095-2115 20m	<p>Sandstone: 75% medium to light gray, speckled gray brown, off white, clear, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, trace friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & chromite, minor disseminated pyrite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 25%, dark to medium gray, green gray, gray brown, trace</p>

	black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.
2115-2130 15m	<p>Sandstone: 60% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & chromite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 40%, dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo.	Date 2010-10-29	Report No. 46
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Current Information

Time 06:00	Depth(MD) 2173.0m	Depth(TVD) 2172.76	Progress 38m	Formation Goose (American) Tickle	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 50.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2131	0.4 ⁰	0	2130.76	20.14			
2146	0.4 ⁰		2145.76	20.25			
2160	0.5 ⁰		2159.76	20.36			

Summary of Previous 24 Hours

Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 2152m	Viscosity 72	Fluid Loss to hole 6.2cm ³ /30min	PV/YP 32.0/11.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No. 18	Size 311	Type Smith GF15B	Depth in 2086	Hours 44.9	ROP(M/HR) 1.93	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2135-2157	1.87	5.00	0.93	Ss+Sh
2157-2173	1.88	2.63	0.58	Ss+Sh
2140-2141.5	1.89	5.01	1.43	

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2135-2157	0.58	0.50	0.04	0.04	tr	tr	Bkgd Gas=0.52
2157-2173	0.45	0.39	0.03	0.02	tr	tr	
Peak 2140-2141.5	1.34	1.24	0.05	0.05	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949		1968	1967.8
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-29	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1968m	Goose (American) Tickle Group
2130-2150 20m	<p>Sandstone: 55% medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grain, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & disseminated pyrite, frequent fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 45%, dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, common slickensided, grading to siltstone.</p>
2150-2165 15m	<p>Shale: 85%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, slightly fissile, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous specks, common fine disseminated pyrite, frequent white calcite filled fractures, common slickensided, grading to siltstone.</p> <p>Sandstone: 15% medium to light gray, speckled gray brown, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, occasional fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p>
2165-2170 5m	<p>Shale: 70%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous specks, common fine disseminated pyrite, frequent white calcite filled fractures, common slickensided, grading to siltstone.</p> <p>Sandstone: 30% medium to dark gray, speckled gray brown, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, occasional fractures filled with white calcite, 3% to 8% intergranular porosity,</p>

	no shows.

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo.	Date 2010-10-30	Report No. 47
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Current Information

Time 06:00	Depth(MD) 2211.0m	Depth(TVD) 2210.76	Progress 38m	Formation Goose (American) Tickle	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 51.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2171	0.6 ⁰	0	2170.76	20.46			
2187	0.5 ⁰		2186.76	20.62			
2201	0.3 ⁰		2200.76	20.71			

Summary of Previous 24 Hours

Drill ahead.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 2191m	Viscosity 76	Fluid Loss to hole 6.0cm ³ /30min	PV/YP 32.0/11.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
18	311	Smith GF15B	2086	65.4	1.91	340@570.0m	244@2285m

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2173-2211	1.86	3.80	0.58	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks		
2173-2211	0.30	0.25	0.03	0.02	tr	tr	Bkgd Gas=0.30		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-30	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1968m	Goose (American) Tickle Group
2170-2185 15m	<p>Shale: 75%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent fine disseminated pyrite, & white calcite filled fractures, minor slickensided, grading to siltstone.</p> <p>Sandstone: 25% medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, minor fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p>
2185-2195 10m	<p>Shale: 60%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent fine disseminated pyrite, & white calcite filled fractures, common slickensided, grading to siltstone.</p> <p>Sandstone: 40% medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, minor fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.</p>
2195-2210 15m	<p>Sandstone: 55% medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, minor fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 45%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent fine disseminated</p>

	pyrite, occasional white calcite filled fractures, common slickensided, grading to siltstone.

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo.	Date 2010-10-31	Report No. 48
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Current Information

Time 06:00	Depth(MD) 2223.0m	Depth(TVD) 2222.76	Progress 12m	Formation Goose (American) Tickle	Status Drilling ahead	
Rig Stoneham 11		Spud Date 2010-09-09		Days from Spud 52.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2171	0.6 ⁰	0	2170.76	20.46			
2187	0.5 ⁰		2186.76	20.62			
2201	0.3 ⁰		2200.76	20.71			

Summary of Previous 24 Hours

Drill ahead to 2223m. Circulate & condition mud. POOH. Pull tight hole from 2205m to 2153m. Pump out 4 singles of drill pipe. Continue to POOH with regular interval flow checks. Drain motor & break bit. Make up new bit & dog sub. RIH to 1073m & shallow test VertiTrak tool. Continue to RIH.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m3 @ 570mTVD	Fluid Type KLA Shield	Density 1250kg/ m3 @ 2223m	Viscosity 76	Fluid Loss to hole 6.4cm ³ /30min	PV/YP 30.0/12.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
18	311	Smith GF15B	2086	71.0	1.93	340@570.0m	244@2285m
19	311	Smith GF128B	2223	0			

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2211-2223	1.66	2.65	1.22	Ss+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2211-2223	0.30	0.25	0.03	0.02	tr	tr	Bkgd Gas=0.30

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m3	Depth xxxxTVD
3.90	0.36	12.5	2181						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949		1968	1967.8
Table Point	2286	2286			
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-10-31	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
1968m	Goose (American) Tickle Group
2210-2223 13m	<p>Sandstone: 60% medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p> <p>Shale: 40%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent white calcite filled fractures, common slickensided, grading to siltstone.</p> <p>(Bottom's up @2223m: POOH for new Bit)</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo.	Date 2010-11-01	Report No. 49
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Current Information

Time 06:00	Depth(MD) 2269.0m	Depth(TVD) 2268.76	Progress 46m	Formation Table Point	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 53.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2227	0.2 ⁰	0	2226.76	20.86			
2242	0.4 ⁰		2241.76	20.94			
2255	0.3 ⁰		2254.76	21.02			

Summary of Previous 24 Hours

Drill ahead

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory to Intermediate Casing Point.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1255kg/ m ³ @ 2238m	Viscosity 78	Fluid Loss to hole 5.8cm ³ /30min	PV/YP 30.0/12.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
19	311	Smith GF128B	2223	21.2	2.16	340@570.0m	244@2285m

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2223-2269	2.09	7.24	1.15	Ss+Ls+Sh
2252-2253	2.09	7.23	1.24	Ls+Sh
2255-2256	2.10	4.22	1.18	Ls+Sh

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2223-2269	0.45	0.40	0.03	0.02	tr	tr	Bkgd Gas=0.45
Peaks							
2252-2253	6.13	5.98	0.08	0.07	tr	tr	
2255-2256	0.99	0.93	0.03	0.03	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgrd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949		1968	1967.8
Table Point	2286	2286		2252	2251.7
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-01	Wellsite Geologist Roland Strickland
Interval & Thickness	Description	
1968m	Goose (American) Tickle Group	
2223-2230 7m	<p>Shale: 63%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous, frequent carbonaceous stringers, occasional white calcite filled fractures & fine disseminated pyrite, common slickensided, grading to siltstone.</p> <p>Sandstone: 37% medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p>	
2230-2250 20m	<p>Shale: 85%, dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, frequent micro micaceous, occasional carbonaceous stringers & white calcite filled fractures, abundant pyrite nodules, common slickensided, grading to siltstone.</p> <p>Sandstone: 15% medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.</p>	
2252m	Table Point Formation	
2250-2265 15m	<p>Limestone: 85% white, buff, light brown, mudstone, massive, micro crystalline to cryptocrystalline, chalky, firm to hard, occasional stylolites, fine disseminated pyrite, fractures with abundant white calcite, tight, no shows.</p> <p>Shale: 15%, dark gray, black, gray green, firm to hard, in part</p>	

	brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo.	Date 2010-11-02	Report No. 50
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Current Information

Time 06:00	Depth(MD) 2285.0m	Depth(TVD) 2284.76	Progress 16m	Formation Table Point	Status POOH @ 1186m
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 54.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2255	0.3 ⁰	0	2254.76	21.02			
2268	0.2 ⁰		2267.76	21.08			
2276	0.2 ⁰		2275.76	21.10			

Summary of Previous 24 Hours

Drill ahead to 2285m: Intermediate Casing Point. Condition mud & circulate prior to wiper trip. POOH. Tight hole conditions from 2275m to 2209m. Pump out and laydown singles. POOH from 2209 to 2100m. RIH from 2100m to 2130m, pickup kelly & ream to bottom. Circulate hole clean & increase mud weight to 1290kg/m³. Layout 5 singles, pump pill & POOH from 2208m to 1351m.

Operations Forecast (next 24 Hours)

Continue to POOH. Lay out BHA and Rig up Baker Atlas to run Wireline Logs.

Drilling Fluid Properties

Formation Leak of Test 3057 kg/m ³ @ 570mTVD	Fluid Type KLA Shield	Density 1290kg/ m ³ @ 2285m	Viscosity 78	Fluid Loss to hole 5.6cm ³ /30min	PV/YP 32.0/13.0	Chlorides 2100mg/L
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Bit and Casing Data

Bit No. 19	Size 311	Type Smith GF128B	Depth in 2223	Hours 29.1	ROP(M/HR) 2.13	Last CSG(size/Depth)340@570.0m Next CSG(size/Depth)244@2285m
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Rate of Penetration (Meters/Hour)

Interval(m) 2269-2285	Average ROP m/hr 2.07	Max ROP 3.39	Min ROP 1.66	Remarks Ls+Sh
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Hydrocarbon Data

Interval(m) 2269-2285	TG % 0.35	%C1 0.30	%C2 0.03	%C3 0.02	%C4 tr	%C5 tr	HYDC Remarks Bkgd Gas=0.35		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
1.21	0.35	1.5	2234						

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289			
Aguathuna	2474	2474			
Catoche	2527	2527			
Boat Harbour	2653	2653			
Watts Bight	2745	2745			
Berry Head	2814	2814			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-02	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2252m	Table Point Formation
2265-2285 20m	<p>Limestone: 98% white, buff, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, frequent stylolites, trace carbonaceous specks, slightly argillaceous, abundant fractures filled with white calcite, trace bitumen staining, tight, no shows</p> <p>Shale: 2%, dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.</p> <p>(POOH at 2285m to Wireline Log & run 244mm Intermediate Casing)</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Ge	Date 2010-11-14	Report No. 51
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Current Information

Time 06:00	Depth(MD) 2316.0m	Depth(TVD) 2316.76	Progress 31m	Formation Table Point	Status Drilling ahead
Rig Stoneham 11	Spud Date 2010-09-09	Days from Spud 66.0	RT 6.25	Ground Elevation 118.75	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2254.75	0.5 ⁰	116.4 ⁰	2254.69	11.63	0.36	1.95	-11.46
2289.2	0.1 ⁰	202.1 ⁰	2289.14	11.61	0.19	1.88	-11.46

Summary of Previous 24 Hours

RIH & test VertiTrak @ 398m. Drill cement from 2163m to 2285m. Tag & drill float collar @ 2247.5m and shoe @ 2275.5m. Drill 216mm hole from 2285m to 2290m. Condition mud & circulate bottoms up and conduct Formation Integrity Test (FIT). Drill ahead
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Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1240kg/ m ³ @ 2285m	Viscosity 65	Fluid Loss to hole 6.4cm ³ /30min	PV/YP 22.0/6.5	Chlorides 2800mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth) 244@2276.0m Next CSG(size/Depth) 178@3400m
20	216	Smith MSi81	2285	8.2	3.90	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2285-2313	4.50	10.8	1.4	Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks		
2285-2313	0.11	0.11	tr	tr	tr	tr	Bkgd Gas=0.11		
Produced Gas while reaming cement in casing 2163m-2285m		Peak=63.1 Bkgd=5.2 Pumps off 139hrs.							
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949		1968	1967.8
Table Point	2286	2286		2252	2251.7
Intermediate Csg Point	2290	2289		2276	2275.8
Aguathuna	2438	2438			
Catoche	2491	2491			
Boat Harbour	2647	2647			
Watts Bight	2709	2709			
Berry Head	2778	2778			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-14	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2252m	Table Point Formation
2285-2310 25m	Limestone: 100% buff, white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, trace stylolites, occasional carbonaceous specks, slightly argillaceous, common fractures filled with white calcite, trace bitumen staining, tight, no shows

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Ge	Date 2010-11-15	Report No. 52
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Current Information

Time 06:00	Depth(MD) 2387.0m	Depth(TVD) 2386.76	Progress 71m	Formation Table Point	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 67.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2343.0	1.0 ⁰	239.2 ⁰	2342.71	15.62	1.29		11.57	-10.50
2357.0	1.2 ⁰	238.9 ⁰	2356.71	15.68	0.43		11.43	-10.73

Summary of Previous 24 Hours

Drill ahead

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1225kg/ m ³ @ 2344m	Viscosity 55	Fluid Loss to hole 5.7cm ³ /30min	PV/YP 23.0/7.5	Chlorides 2900mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth) 244@2276.0m Next CSG(size/Depth)178@3400m
20	216	Smith MSi81	2285	27.6	3.69	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2313-2349	5.0	9.1	1.42	Ls
2349-2385	3.0	6.9	1.20	Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2313-2349	0.10	0.10	tr	tr	tr	tr	Bkgd Gas=0.08
2349-2385	0.05	0.05	tr	tr	tr	tr	

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
Allochthon A	0	0		25.6	25.6
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949		1968	1967.8
Table Point	2286	2286		2252	2251.7
Intermediate Csg Point	2290	2289		2276	2275.8
Aguathuna	2438	2438			
Catoche	2491	2491			
Boat Harbour	2647	2647			
Watts Bight	2709	2709			
Berry Head	2778	2778			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-15	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2252m	Table Point Formation
2310-2355 45m	Limestone: 100% mottled light - dark brown, buff, off white, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, occasional chalky, occasional stylolites, frequent carbonaceous stringers, common argillaceous, occasional fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.
2355-2375 20m	Limestone: 100% buff, off white, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace stylolites, minor argillaceous, occasional fractures filled with white & clear calcite, trace bitumen staining & fine disseminated pyrite, no visible porosity, no shows.
2375-2385 10m	Limestone: 100% white, buff, off white, mottled light gray, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, abundant chalky, trace stylolites, minor argillaceous, trace fractures filled with white & clear calcite, occasional bitumen staining, trace fine disseminated pyrite, no visible porosity, no shows.

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-16	Report No. 53
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Current Information

Time 06:00	Depth(MD) 2499.0m	Depth(TVD) 2498.76	Progress 112m	Formation Aguathuna	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 68.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
2467.0	0.4 ⁰	50.0 ⁰	2466.71	15.50	0.55		11.37	-10.54
2481.0	0.5 ⁰	59.0 ⁰	2480.71	15.49	0.26		11.43	-10.45

Summary of Previous 24 Hours

Drill ahead

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1225kg/ m ³ @ 2419m	Viscosity 63	Fluid Loss to hole 6.3cm ³ /30min	PV/YP 24.0/7.5	Chlorides 3100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth 244@2276.0m Next CSG(size/Depth)178@3400m
20	216	Smith MSi81	2285	48.1	4.45	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2385-2442	5.24	11.82	1.58	Ls
2442-2471	5.85	12.0	2.97	Ls+Dol
2471-2497	6.34	13.75	3.53	Dol+Ls
Peaks				
2397-2399	5.6	7.3	4.0	Ls
2447-2449.6	5.9	8.4	3.6	Dol+Ls
2473-2480	5.8	11.1	3.5	Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2385-2442	0.01	0.01	tr	tr	tr	tr	Bkgd Gas=0.05
2442-2471	0.03	0.03	tr	tr	tr	tr	
2471-2497	0.18	0.18	0.003				
Peaks							
2397-2399	0.28	0.28					
2447-2449.6	0.24	0.24					
2473-2480	1.60	1.55	tr	tr			

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
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Sample Descriptions for Finnegan - 1

Formation: Allochthon A TVD: 25.6m MD: 25.6m 359.4m

25 to 30 (5.00)

50% Limestone

dark gray, light brown, crypto crystalline, hard, brittle, tight, no shows.

30% Shale

medium - dark gray, gray green, firm - hard, in part brittle, platy - blocky.

20% Sandstone

clear, off white, medium gray, salt & pepper, medium - coarse grained, moderate - poorly sorted, subangular, mainly quartz, consolidated with calcareous cement, frequent orange feldspar, occasional green sericitized serpentine, trace disseminated pyrite, 8 - 10% inferred porosity, no shows.

30 to 35 (5.00)

60% Limestone

medium - dark brown, cream, massive, mudstone, crypto crystalline, hard, in part brittle, occasional clear calcite stringers, tight, no shows.

30% Shale

medium - dark gray, gray green, firm - hard, in part brittle, platy - blocky, fine disseminated pyrite.

10% Sandstone

clear, off white, medium gray, salt & pepper, medium - coarse grained, moderate - poorly sorted, subangular, mainly quartz, consolidated with calcareous cement, frequent orange feldspar, occasional green sericitized serpentine, trace disseminated pyrite, 8 - 10% inferred porosity, no shows.

35 to 60 (25.00)

80% Limestone

medium - dark brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

20% Shale

medium - dark gray, firm - hard, in part brittle, platy - blocky, fine disseminated pyrite, occasional slickenside.

60 to 65 (5.00)

70% Limestone

medium - dark brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

30% Shale

medium - dark gray, firm - hard, in part brittle, platy - blocky, fine disseminated pyrite, occasional slickenside.

65 to 70 (5.00)

80% Shale

medium - dark gray, firm - hard, in part brittle, platy - blocky, fine disseminated pyrite, occasional slickenside.

20% Limestone

medium - dark brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

70 to 75 (5.00)

60% Shale

medium - dark gray, firm - hard, in part brittle, platy - blocky, fine disseminated pyrite, occasional slickenside.

40% Limestone

medium - dark brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

75 to 85 (10.00)

60% Limestone

medium - dark brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

40% Shale

medium - dark gray, green gray, firm - hard, in part brittle, platy - blocky, fine disseminated pyrite, occasional slickenside.

85 to 90 (5.00)

70% Limestone

medium - light brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

30% Shale

medium - dark gray, green gray, firm - hard, in part brittle, platy - blocky, splintery, slightly siliceous, fine disseminated pyrite stringers.

90 to 100 (10.00)

60% Limestone

medium - light brown, massive, mudstone, crypto crystalline, hard - very hard, siliceous, in part brittle, occasional clear & white, calcite stringers, frequent fine grained disseminated pyrite, tight, no shows.

39% Shale

dark - medium gray, green gray, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, abundant disseminated pyrite.

1% Chert

light brown, very hard, angular, conchoidal.

100 to 115 (15.00)

70% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

30% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, abundant disseminated pyrite.

115 to 120 (5.00)

60% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

40% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

120 to 125 (5.00)

50% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

50% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

125 to 130 (5.00)

70% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

30% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, occasional fine grained disseminated pyrite, tight, no shows.

130 to 140 (10.00)

70% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, tight, no shows.

30% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

140 to 145 (5.00)

60% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, tight, no shows.

40% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

145 to 155 (10.00)

60% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

40% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, tight, no shows.

155 to 165 (10.00)

60% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, tight, no shows.

40% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

165 to 180 (15.00)

80% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, tight, no shows.

20% Shale

dark - medium gray, green gray, firm - hard, slightly siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

180 to 185 (5.00)

70% Shale

dark - medium gray, green gray, firm - very hard, siliceous with thin quartz stringers, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

30% Limestone

light - medium brown, buff, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, tight, no shows.

185 to 190 (5.00)

80% Limestone

buff, light - medium brown, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

dark - medium gray, green gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

190 to 195 (5.00)

70% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, frequent disseminated pyrite.

28% Limestone

buff, light - medium brown, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

2% Chert

light brown, light gray, very hard, angular, conchoidal.

195 to 200 (5.00)

70% Limestone

dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

30% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

200 to 210 (10.00)

68% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

30% Limestone

dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

2% Chert

light brown, light gray, very hard, angular, conchoidal.

210 to 215 (5.00)

80% Shale

green gray, dark - medium gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

20% Limestone

dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

215 to 220 (5.00)

60% Shale

green gray, dark - medium gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

40% Limestone

light - dark brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

220 to 225 (5.00)

80% Shale

green gray, dark - medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

20% Limestone

light - dark brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, frequent clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

225 to 230 (5.00)

90% Shale

green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

10% Limestone

light - dark brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, frequent clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

230 to 235 (5.00)

60% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

40% Shale

green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

235 to 240 (5.00)

90% Limestone

off white, buff, cream, light brown, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, frequent nodular pyrite, trace bitumen staining, tight, no shows.

10% Shale

green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

240 to 260 (20.00)

80% Limestone

dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

260 to 275 (15.00)

60% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

38% Limestone

dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

2% Chert

light brown, light gray, very hard, angular, conchoidal.

275 to 285 (10.00)

60% Limestone

dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

40% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

285 to 290 (5.00)

80% Limestone

off white, buff, light - medium brown, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

290 to 305 (15.00)

70% Shale

green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

30% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

305 to 315 (10.00)

80% Limestone

off white, buff, light - medium brown, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

315 to 320 (5.00)

60% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

40% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

320 to 325 (5.00)

70% Shale

green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

30% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

325 to 330 (5.00)

80% Limestone

off white, buff, light - medium brown, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

18% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

2% Chert

light gray, light brown, very hard, angular, conchoidal.

330 to 340 (10.00)

60% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

40% Limestone

dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

340 to 355 (15.00)

80% Limestone

off white, buff, light - medium brown, cream, massive, mudstone, crypto crystalline, hard, in part siliceous & brittle, stylolitic, fractures with frequent clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

355 to 360 (5.00)

70% Limestone

dark - light brown, off white, cream, massive, mudstone - grainstone, crypto crystalline - crystalline, very hard, in part siliceous & brittle, abundant white calcite stringers, frequent "dirty" argillaceous, occasional fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

30% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

360 to 365 (5.00)

80% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

365 to 380 (15.00)

80% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

18% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

2% Chert

light gray, light brown, very hard, angular, conchoidal.

380 to 385 (5.00)

50% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

50% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

Formation: Allochthon B TVD: 385m MD: 385m 620m

385 to 395 (10.00)

85% Shale

green gray, medium gray, reddish brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

10% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

5% Chert

reddish brown, light pale gray, light brown, very hard, angular, conchoidal.

395 to 400 (5.00)

85% Shale

green gray, medium - dark gray, reddish brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

10% Chert

green gray, reddish brown, light pale gray, very hard, angular, conchoidal.

5% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

400 to 405 (5.00)

80% Shale

green gray, medium - dark gray, reddish brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

18% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

2% Chert

green gray, light pale gray, very hard, angular, conchoidal.

405 to 410 (5.00)

70% Shale

green gray, medium - dark gray, trace reddish brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

30% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

410 to 415 (5.00)

70% Shale

green gray, medium - dark gray, trace reddish brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

29% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

1% Chert

red brown, light pale gray, very hard, angular, conchoidal.

415 to 420 (5.00)

80% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

green gray, medium - dark gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

420 to 425 (5.00)

90% Shale

green gray, reddish brown, medium - dark gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

9% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

1% Chert

light pale gray, very hard, angular, conchoidal.

425 to 430 (5.00)

95% Shale

50% green gray, 50% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + serpentine, stringers, frequent slickenside.

3% Chert

red brown, light pale gray, light green, very hard, angular, conchoidal.

2% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

430 to 435 (5.00)

95% Shale

50% green gray, 50% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + serpentine, stringers, frequent slickenside.

5% Chert

red brown, light pale gray, light green, very hard, angular, conchoidal.

435 to 440 (5.00)

75% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

green gray, medium - dark gray, trace red brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

5% Chert

light pale gray, light green, buff, clear, very hard, angular, conchoidal.

440 to 445 (5.00)

80% Shale

green gray, medium - dark gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, grading siltstone, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

20% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

445 to 450 (5.00)

80% Shale

red brown, trace green gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

20% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

450 to 465 (15.00)

100% Shale

red brown, trace green gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

465 to 470 (5.00)

80% Shale

red brown, trace green gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

20% Dolomite

off white, light gray, hard, in part brittle, micro crystalline to crystalline, no visible porosity, no shows.

470 to 475 (5.00)

90% Shale

red brown, occasional green gray, medium - dark gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

10% Dolomite

off white, light gray, hard, in part brittle, micro crystalline to crystalline, no visible porosity, no shows.

475 to 480 (5.00)

98% Shale

red brown, occasional green gray, medium - dark gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

2% Chert

light pale gray, light green, buff, clear, very hard, angular, conchoidal.

480 to 490 (10.00)

100% Shale

red brown, occasional green gray, medium - dark gray, firm - very hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers, micro micaceous.

490 to 500 (10.00)

100% Shale

green gray, medium - dark gray, trace red brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

500 to 505 (5.00)

100% Shale

50% green gray, 50% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + quartz stringers, frequent slickenside, occasional off white very hard indurated sandstone grains.

505 to 515 (10.00)

80% Shale

50% green gray, 50% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + quartz stringers, frequent slickenside.

20% Sandstone

off white, buff, fine grained, moderate sorted, rounded, mainly quartz, very hard, indurated with silica cement, trace fine disseminated pyrite, no visible porosity, no shows.

515 to 520 (5.00)

60% Shale

50% green gray, 50% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + quartz stringers, frequent slickenside.

20% Sandstone

off white, buff, fine grained, moderate sorted, rounded, mainly quartz, very hard, indurated with silica cement, trace fine disseminated pyrite, no visible porosity, no shows.

20% Dolomite

buff, off white, micro crystalline, massive, very hard, silica cemented, brittle, no visible porosity, no shows.

520 to 525 (5.00)

70% Dolomite

buff, off white, micro crystalline - crystalline, massive, very hard, silica cemented, brittle, no visible porosity, no shows.

30% Shale

green gray, medium - dark gray, trace red brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, grading siltstone, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

525 to 530 (5.00)

50% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

30% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

20% Dolomite

buff, off white, micro crystalline - crystalline, massive, very hard, silica cemented, brittle, no visible porosity, no shows.

530 to 535 (5.00)

70% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Dolomite

buff, off white, micro crystalline - crystalline, massive, very hard, silica cemented, brittle, no visible porosity, no shows.

10% Shale

dark - medium gray, green gray, trace red brown, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

535 to 545 (10.00)

50% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

40% Shale

red brown, occasional green gray, medium - dark gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

10% Dolomite

buff, off white, micro crystalline - crystalline, massive, very hard, silica cemented, brittle, no visible porosity, no shows.

545 to 555 (10.00)

80% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

20% Shale

dark - medium gray, green gray, trace red brown, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

555 to 565 (10.00)

50% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

50% Shale

dark - medium gray, green gray, trace red brown, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

565 to 570 (5.00)

70% Shale

dark - medium gray, green gray, trace red brown, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

30% Limestone

light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

570 to 572 (2.00)

70% Shale

dark - medium gray, green gray, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone. (Btms Up for TOTAL DEPTH 444.5mm section.)

30% Limestone

light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, stylolitic, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

572 to 580 (8.00)

100% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

580 to 590 (10.00)

70% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

30% Limestone

light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace light brown chert, tight, no shows.

590 to 610 (20.00)

90% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

10% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

610 to 625 (15.00)

70% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

30% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

625 to 665 (40.00)

80% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

20% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

665 to 675 (10.00)

70% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

30% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

675 to 740 (65.00)

80% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

20% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

740 to 760 (20.00)

60% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

40% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

760 to 800 (40.00)

70% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

30% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

800 to 850 (50.00)

70% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

30% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

850 to 870 (20.00)

60% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

40% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

870 to 895 (25.00)

80% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone, trace coarse grained gray flysch sandstone.

20% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

895 to 905 (10.00)

60% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone, trace coarse grained gray flysch sandstone.

40% Limestone

light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated + nodular pyrite, trace bitumen staining, tight, no shows.

905 to 980 (75.00)

80% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, slightly calcareous, micro micaceous, grading siltstone.

20% Limestone

off white, buff, light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

980 to 1000 (20.00)

70% Shale

dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, slightly calcareous, micro micaceous, grading siltstone.

30% Limestone

off white, buff, light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, firm - hard, in part brittle, frequent fractures with white & clear calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows. (Total Gas from 987m to 990m = 38.83%) C1=34.62%; C2=2.01%; C3=1.91%; C4=0.21%; C5=0.07%.

Formation: Allochthon C TVD: 1005m MD: 1005m 598m

1000 to 1010 (10.00)

50% Shale

dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite.

30% Limestone

buff, off white, light brown, mudstone, micro crystalline to crystalline, frequent white chalky, firm to hard, occasional fine disseminated pyrite, tight, no shows.

20% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green sericitized serpentine, occasional carbonaceous specks, tight, no shows.

1010 to 1020 (10.00)

40% Shale

dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite.

30% Limestone

buff, off white, light brown, mudstone, micro crystalline to crystalline, frequent white chalky, firm to hard, occasional fine disseminated pyrite, tight, no shows.

30% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green sericitized serpentine, occasional carbonaceous specks, tight, no shows.

1020 to 1050 (30.00)

70% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green sericitized serpentine, occasional carbonaceous specks, tight, no shows.

20% Shale

dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite.

10% Limestone

buff, off white, light brown, mudstone, micro crystalline to crystalline, frequent white chalky, firm to hard, occasional fine disseminated pyrite, tight, no shows.

1050 to 1085 (35.00)

80% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with

silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green sericitized serpentine, occasional carbonaceous specks, frequent white chalky limestone stringers, tight, no shows.

20% Shale

dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite.

1085 to 1100 (15.00)

75% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green sericitized serpentine, occasional carbonaceous specks, frequent white chalky limestone stringers, tight, no shows.

25% Shale

dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite.

1100 to 1115 (15.00)

70% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green sericitized serpentine, occasional carbonaceous specks, frequent white chalky limestone stringers, flysch derived, tight, no shows.(POOH at 1113m for Bit # 3 Change)

30% Shale

medium to light gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins.

1115 to 1125 (10.00)

65% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, frequent white chalky limestone stringers, flysch derived, tight, no shows.

35% Shale

medium to light gray, firm to hard, blocky to platy, silty, slightly calcareous, fine disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins.

1125 to 1130 (5.00)

60% Shale

medium to dark gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins.

40% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement,

hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, frequent white chalky limestone stringers, flysch derived, tight, no shows.

1130 to 1145 (15.00)

60% Shale

medium to dark gray, firm to hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous.

40% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, frequent white chalky limestone stringers, flysch derived, tight, no shows.

1145 to 1155 (10.00)

60% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, frequent white chalky limestone stringers, fractures with clear calcite, tight, no shows. (Total Gas from 1146m to 1149m = 64.37%) C1=60.87%; C2=1.73%; C3=1.66%; C4=0.23%; C5=0.01%.

40% Shale

medium to dark gray, firm to hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous.

1155 to 1160 (5.00)

60% Shale

dark to medium gray, black, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

40% Sandstone

medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, frequent white chalky limestone stringers, fractures with clear calcite, tight, no shows.

1160 to 1190 (30.00)

70% Shale

dark to medium gray, black, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

30% Sandstone

medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, occasional white chalky limestone stringers, tight, no shows.

1190 to 1220 (30.00)

60% Shale

dark to medium gray, black, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

40% Sandstone

medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic fragments, green serpentine & bronze mica flakes, occasional white chalky limestone stringers, & disseminated fine grained pyrite, tight, no shows.

1220 to 1230 (10.00)

60% Sandstone

medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic fragments, disseminated fine grained pyrite, tight, no shows.

40% Shale

dark to medium gray, black, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone. (POOH at 1225m for Bit # 4 change)

1230 to 1240 (10.00)

60% Sandstone

medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments, disseminated fine grained pyrite, tight, no shows.

40% Shale

medium to dark gray, light gray, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1240 to 1265 (25.00)

60% Sandstone

medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments, disseminated fine grained pyrite, tight, no shows.

40% Shale

medium to dark gray, light gray, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1265 to 1270 (5.00)

50% Sandstone

medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated,

quartzitic, occasional grains of feldspar, lithic fragments, disseminated fine grained pyrite, tight, no shows.

50% Shale

medium to dark gray, light gray, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1270 to 1280 (10.00)

60% Sandstone

medium - dark gray, mottled gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments, disseminated fine grained pyrite, tight, no shows.

40% Shale

medium to dark gray, light gray, firm to very hard, blocky to platy, silty, calcareous, siliceous + calcareous matrix, occasional disseminated pyrite, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone. (1 to 2% burnt cuttings)

1280 to 1290 (10.00)

40% Shale

medium to dark gray, light gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional disseminated pyrite, frequent slickenside, abundant cross cutting very thin calcite veins, micro micaceous, grading siltstone. (1 to 2% burnt cuttings)

40% Sandstone

medium - dark gray, mottled gray, light gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments, occasional disseminated fine grained pyrite, tight, no shows. (POOH for Bit #5 change).

20% Limestone

medium to light brown, gray brown, mudstone, micro crystalline to crystalline, very siliceous matrix, hard, brittle, fractures with white calcareous stringers, tight, no shows.

1290 to 1295 (5.00)

60% Sandstone

medium - dark gray, mottled gray, light gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, occasional disseminated fine grained pyrite, tight, no shows.

30% Shale

medium to dark gray, light gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional disseminated pyrite, frequent slickenside, abundant cross cutting very thin calcite veins, micro micaceous, grading siltstone.

10% Limestone

medium to light brown, gray brown, mudstone, micro crystalline to crystalline, very siliceous matrix, hard, brittle, fractures with white calcareous stringers, tight, no shows.

1295 to 1305 (10.00)

70% Sandstone

medium - dark gray, mottled gray, light gray, clear, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular to angular, mainly quartz, strongly consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, trace bitumen staining, tight, no shows.

30% Shale

medium to dark gray, light gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1305 to 1320 (15.00)

70% Sandstone

medium - dark gray, mottled gray, light gray, clear, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular to angular, mainly quartz, strongly consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, frequent fractures with white calcite veining, trace bitumen staining, 5% to 8% porosity, no shows.

30% Shale

medium to dark gray, gray brown, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1320 to 1335 (15.00)

75% Sandstone

medium - light gray, mottled gray, dark gray, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, frequent fractures with white calcite veining, trace bitumen staining, 5% to 8% porosity, no shows.

25% Shale

medium to dark gray, gray brown, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1335 to 1340 (5.00)

80% Sandstone

medium - light gray, mottled gray, dark gray, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, frequent fractures with white calcite veining, trace bitumen staining, 5% to 8% porosity, no shows. (Abundant balls of rock flour)

20% Shale

medium to dark gray, gray brown, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1340 to 1350 (10.00)

80% Sandstone

off white, medium - light gray, mottled gray, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, occasional white friable quartz grains, trace bitumen staining, 5% to 10% intergranular porosity, no shows.

20% Shale

medium to dark gray, green gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1350 to 1355 (5.00)

80% Sandstone

off white, medium - light gray, mottled gray, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, occasional white friable quartz grains, occasional fractures filled with white calcite, 5% to 10% intergranular porosity, no shows.

20% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, occasional slickenside, grading siltstone.

1355 to 1360 (5.00)

90% Sandstone

off white, medium - light gray, mottled gray, clear, glassy, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, occasional white friable quartz grains, occasional fractures filled with white calcite, 5% to 10% intergranular porosity, no shows.

10% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1360 to 1365 (5.00)

90% Sandstone

off white, medium - light gray, mottled gray, clear, glassy, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic & shale fragments, green serpentine, & disseminated fine grained pyrite, occasional white friable quartz grains, frequent fractures filled with white calcite, abundant bronze mica flakes, 5% to 10% intergranular porosity, no shows.

10% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1365 to 1370 (5.00)

80% Sandstone

off white, medium - light gray, mottled gray, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica &

calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic & shale fragments, green serpentine, & disseminated fine grained pyrite, frequent white friable quartz grains, frequent fractures filled with white calcite, occasional bronze mica flakes, 8% to 10% intergranular porosity, no shows.

20% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1370 to 1380 (10.00)

90% Sandstone

off white, medium - light gray, mottled gray, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic & shale fragments, green serpentine, & disseminated fine grained pyrite, frequent white friable quartz grains, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

10% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1380 to 1385 (5.00)

90% Sandstone

off white, medium - light gray, mottled gray, clear, glassy, fine to medium grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic & shale fragments, green serpentine, & disseminated fine grained pyrite, frequent white friable quartz grains, 8% to 10% intergranular porosity, no shows.

10% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1385 to 1395 (10.00)

80% Sandstone

off white, medium - light gray, mottled gray, clear, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic & shale fragments, green serpentine, & disseminated fine grained pyrite, frequent white friable quartz grains, 8% to 10% intergranular porosity, no shows.

20% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1395 to 1400 (5.00)

90% Sandstone

off white, medium - light gray, mottled gray, clear, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic & shale fragments, occasional white friable quartz grains, abundant fractures filled with white calcite, frequent bronze mica flakes, trace white chert, 8% to 10% intergranular porosity, no shows.

10% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1400 to 1405 (5.00)

80% Sandstone

medium - light gray, mottled gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic & shale fragments, occasional white friable quartz grains, abundant fractures filled with white calcite, occasional bronze mica flakes, 8% to 10% intergranular porosity, no shows.

20% Shale

medium to dark gray, brown gray, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1405 to 1407 (2.00)

75% Sandstone

medium - light gray, mottled gray, off white, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic & shale fragments, frequent white friable quartz grains, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows. (Btms up sample at 1407m. POOH for new Bit # 8)

25% Shale

dark to medium gray, brown gray, firm to hard, blocky to platy, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1407 to 1410 (3.00)

75% Sandstone

medium - light gray, mottled gray, off white, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic & shale fragments, bronze mica flakes, frequent white friable quartz grains, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

25% Shale

dark to medium gray, brown gray, firm to hard, blocky to platy, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone, trace dark brown limestone.

1410 to 1420 (10.00)

50% Sandstone

medium - light gray, mottled gray, off white, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, occasional grains of feldspar, lithic & shale fragments, bronze mica flakes, frequent white friable quartz grains, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

50% Shale

dark to medium gray, brown gray, firm to hard, blocky to platy, elongated, silty, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1420 to 1425 (5.00)

60% Sandstone

medium - light gray, mottled gray, dark gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, indurated, occasional grains of feldspar, lithic & shale fragments, abundant bronze mica flakes, frequent white friable quartz grains, 8% to 10% intergranular porosity, no shows.

40% Shale

dark to medium gray, brown gray, firm to hard, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, silty.

1425 to 1430 (5.00)

70% Sandstone

medium - light gray, mottled gray, off white, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, occasional friable, indurated, frequent grains of feldspar, lithic & shale fragments + serpentine, abundant bronze mica flakes, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

30% Shale

medium to dark gray, brown gray, firm to hard, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, silty.

1430 to 1445 (15.00)

75% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, abundant fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

25% Shale

medium to dark gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1445 to 1455 (10.00)

80% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

20% Shale

medium to dark gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1455 to 1460 (5.00)

70% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

30% Shale

medium to dark gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1460 to 1465 (5.00)

80% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

20% Shale

medium to dark gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, grading siltstone.

1465 to 1469 (4.00)

80% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows. (Bottom's Up Sample)

20% Shale

medium to dark gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone.

1469 to 1471 (2.00)

65% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows. (Btms Up Sample: POOH due to pump pressure problems)

35% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, frequent fine disseminated pyrite, grading siltstone, trace dark brown limestone. (Btms up sample: POOH due to pump pressure problems)

1471 to 1475 (4.00)

75% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, frequent grains of feldspar, lithic & shale fragments, trace bronze mica flakes, frequent fractures filled with white calcite, 8% to 10% intergranular porosity, no shows.

25% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, frequent fine disseminated pyrite, grading siltstone, trace dark brown limestone.

1475 to 1480 (5.00)

75% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic & serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

25% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, fractures with frequent cross cutting very thin calcite veins, micro micaceous, occasional pyrite nodules, grading siltstone, common slickenside.

1480 to 1485 (5.00)

70% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic & serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

30% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, fractures with frequent cross cutting very thin calcite veins, micro micaceous, occasional pyrite nodules, grading siltstone, common slickenside.

1485 to 1490 (5.00)

75% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic & serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

25% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, fractures with frequent cross cutting very thin calcite veins, micro micaceous, occasional pyrite nodules, grading siltstone, common slickenside.

1490 to 1492.4 (2.40)

75% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows. (spot sample)

25% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, fractures with frequent cross cutting very thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone, common slickenside.

1492.4 to 1494 (1.60)

70% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.

30% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone, common slickenside, trace brown hard limestone.

1494 to 1500 (6.00)

65% Sandstone

medium - light gray, mottled gray, off white, dark gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.

35% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, grading siltstone, common slickenside, trace brown hard limestone.

1500 to 1505 (5.00)

60% Sandstone

medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.

35% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, common slickenside, grading siltstone.

5% Limestone

light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.

1505 to 1515 (10.00)

55% Sandstone

medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.

5% Limestone

light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.

1515 to 1520 (5.00)

55% Sandstone

medium - light gray, mottled gray, off white, dark gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.

5% Limestone

light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.

1520 to 1523 (3.00)

55% Sandstone

medium - light gray, mottled gray, off white, dark gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, grains of feldspar, lithic fragments & serpentine, abundant fractures filled with white calcite, fine disseminated pyrite, 5% to 8% intergranular porosity, no shows. (Btms up sample at 1523m)

40% Shale

dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + calcareous matrix, abundant fractures with frequent cross cutting thin calcite veins, micro micaceous, occasional thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.

5% Limestone

light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.

1523 to 1525 (2.00)

75% Sandstone

medium - light gray, mottled gray, off white, clear, glassy, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & minor serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

23% Shale

dark to medium gray, brown gray, firm to hard, in part brittle, blocky to platy, siliceous + calcareous matrix, occasional fractures with cross cutting thin calcite veins, micro micaceous, occasional thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.

2% Limestone

light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.

1525 to 1530 (5.00)

70% Sandstone

medium - light gray, mottled gray, off white, clear, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to hard, indurated, in part friable, frequent grains of feldspar, lithic fragments & minor serpentine, abundant fractures filled with white calcite, 8% to 12% intergranular porosity, no shows. (From 1526.1m to 1527m: TG=16.1%; C1=15.39%; C2=0.33%; C3=0.31%; C4=trace; C5=trace).

28% Shale

dark to medium gray, brown gray, firm to hard, in part brittle, blocky to platy, siliceous + calcareous matrix, occasional fractures with cross cutting thin calcite veins, micro micaceous, occasional thin carbonaceous stringers + disseminated pyrite, common slickenside, grading siltstone.

2% Limestone

light brown, massive, mudstone, crypto crystalline, hard, in part brittle, frequent clear calcite stringers, tight, no shows.

1530 to 1535 (5.00)

65% Sandstone

medium - dark gray, mottled gray, off white, light gray, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & serpentine, occasional fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

35% Shale

dark to medium gray, brown gray, firm to hard, in part brittle, blocky to platy, siliceous + calcareous matrix, micro micaceous, occasional thin carbonaceous stringers, common slickenside, grading siltstone.

1535 to 1540 (5.00)

70% Sandstone

medium - dark gray, mottled gray, off white, light gray, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

30% Shale

dark to medium gray, light gray, firm to hard, in part brittle, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, grading siltstone.

1540 to 1545 (5.00)

65% Sandstone

medium to dark gray, mottled gray, off white, light gray, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

35% Shale

dark to medium gray, light gray, firm to hard, in part brittle, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, grading siltstone.

1545 to 1550 (5.00)

80% Shale

dark to medium gray, occasional light gray, firm to hard, , blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, grading siltstone.

20% Sandstone

medium to dark gray, mottled gray, off white, light gray, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1550 to 1555 (5.00)

80% Shale

dark to medium gray, rare light gray, firm to hard, , blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading siltstone.

20% Sandstone

medium to dark gray, mottled gray, off white, light gray, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1555 to 1560 (5.00)

65% Shale

dark to medium gray, rare light gray, firm to hard, , blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading siltstone.

35% Sandstone

medium to dark gray, mottled gray, off white, light gray, silty to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica and dolomite & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1560 to 1565 (5.00)

70% Shale

dark to medium gray, common light gray, firm to hard, brittle in part, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

30% Sandstone

medium to dark gray, mottled gray, off white, light gray, silty to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1565 to 1570 (5.00)

80% Shale

dark to medium gray, common light gray, firm to hard, brittle in part, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

20% Sandstone

medium to dark gray, mottled gray, off white, light gray, predominately as above, silty to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica dolomitic & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1570 to 1575 (5.00)

80% Shale

dark to medium gray, common light gray, firm to hard, brittle in part, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

20% Sandstone

medium to dark gray, mottled gray, off white, light gray, predominately as above, silty to medium grained, rare coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica dolomitic & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1575 to 1580 (5.00)

80% Shale

dark to medium gray, common light gray, firm to hard, brittle in part, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

20% Sandstone

medium to dark gray, mottled gray, off white, light gray, predominately as above, silty to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica dolomitic & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1580 to 1585 (5.00)

70% Shale

dark to medium gray, common light gray, firm to hard, brittle in part, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

30% Sandstone

medium to dark gray, mottled gray, off white, light gray, predominately as above, silty to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1585 to 1590 (5.00)

80% Shale

dark to medium gray, rare light gray, firm to hard, occasional brittle, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

20% Sandstone

medium to dark gray, rare white, light gray, silty to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1590 to 1595 (5.00)

80% Shale

dark to medium gray, common light gray, firm to hard, brittle in part, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

20% Sandstone

medium to dark gray, mottled gray, off white, light gray, predominately as above, silty to medium grained, trace coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1595 to 1600 (5.00)

90% Shale

dark to medium gray, rare light gray, firm to hard, occasional brittle, blocky to platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

10% Sandstone

medium to dark gray, mottled gray, off white, light gray, predominately as above, silty to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, grains of feldspar, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

Formation: Allochthon D TVD: 1602.98m MD: 1603m 365m

1600 to 1605 (5.00)

95% Shale

dark to medium gray, predominately as above, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

5% Sandstone

medium to dark gray, mottled gray, off white, light gray,, silty to fine grained, moderate to well sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1605 to 1610 (5.00)

100% Shale

dark to medium gray, common light gray, firm to hard, platy, siliceous, dolomitic, + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, occasional fractures, grading to siltstone.

1610 to 1615 (5.00)

100% Shale

dark to medium gray, common light gray, firm to hard, platy, siliceous + calcareous/dolomitic matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1615 to 1620 (5.00)

100% Shale

dark to medium gray, predominately as above, firm to hard, platy, siliceous/dolomitic, + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1620 to 1625 (5.00)

100% Shale

dark to medium gray, common light gray, firm to hard, platy, siliceous + calcareous/dolomitic matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1625 to 1630 (5.00)

90% Shale

dark to medium gray, common light gray, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

10% Sandstone

medium to dark gray, mottled gray, rare off white, light gray, silty to fine grained, grading to siltstone, moderate to well sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1630 to 1635 (5.00)

95% Shale

dark to medium gray, common light gray, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

5% Sandstone

medium to dark gray, mottled gray, off white, light gray,, silty to fine grained, moderate to well sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1635 to 1640 (5.00)

95% Shale

dark to medium gray, common light gray, firm to hard, platy, siliceous dark to medium gray, common light gray, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone. + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

5% Sandstone

medium to dark gray, mottled gray, off white, light gray,, silty to fine grained, moderate to well sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1640 to 1645 (5.00)

90% Shale

dark to medium gray, predominately as above, firm to hard, platy, siliceous, dark to medium gray, common light gray, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone. + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

10% Sandstone

medium to dark gray, mottled gray, off white, light gray,, silty to fine grained, moderate to well sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1645 to 1650 (5.00)

80% Shale

dark to medium gray, common med brown, firm to hard, platy, siliceous, dark to medium gray, common light gray, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone. + calcareous matrix, silty, carbonaceous in part, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

20% Sandstone

medium to dark gray, mottled gray, off white, light gray,, silty to fine grained, moderate to well sorted, subangular, mainly quartz, consolidated with silica, dolomitic & calcareous cement, firm to very hard, indurated, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1650 to 1655 (5.00)

60% Sandstone

light to medium gray, mottled gray, off white, silty to fine grained, moderate to well sorted, subangular, clear and frosted quartz, common dark gray chert, consolidated with silica and dolomitic & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

40% Shale

dark to medium gray, predominately as above, firm to hard, platy, siliceous, dark to medium gray, common light gray, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone. + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1655 to 1660 (5.00)

60% Sandstone

light to medium gray, mottled gray, off white, silty to fine grained, moderate to well sorted, subangular, clear and frosted quartz, rare dark gray, organic and dark brown chert, consolidated with silica and dolomitic & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

40% Shale

dark to medium gray, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1660 to 1665 (5.00)

60% SANDSTONE

light to medium gray, light to medium brown mottled gray, off white, silty to fine grained, moderate to well sorted, subangular, predominately clear and frosted quartz, rare dark gray, orange and dark brown chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

40% Shale

dark to medium gray, firm to hard, platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1665 to 1670 (5.00)

60% Shale

dark to medium gray, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

40% Sandstone

light to medium gray, light to medium brown mottled gray, off white, silty to fine grained, moderate to well sorted, subangular, clear and frosted quartz, rare dark gray, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1670 to 1675 (5.00)

60% Sandstone

light to medium gray, off white, silty to fine grained, occasional medium grain, moderate to well sorted, subangular, predominately clear & frosted quartz, rare dark gray, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

40% Shale

dark to medium gray, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1675 to 1680 (5.00)

50% Sandstone

light to medium gray, light to medium brown mottled gray, off white, fine grained, moderate to well sorted, subangular, predominately clear ad frosted quartz, rare dark gray, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

50% Shale

dark to medium gray, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1680 to 1685 (5.00)

65% Sandstone

dark to medium gray, off white in part, silty to fine grained, moderate to well sorted, subangular, predominately clear ad frosted quartz, rare dark gray, common dark gray to dark brown chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, common fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

35% Shale

dark to medium gray, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1685 to 1690 (5.00)

80% Sandstone

medium to dark gray, off white, silty to fine grained, moderate to well sorted, subangular, predominately clear & frosted quartz, occasional dark gray and brown chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

20% Shale

dark to medium gray, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1690 to 1695 (5.00)

80% Sandstone

medium gray, dark gray in part, light to medium brown mottled gray, off white, silty to fine grained, moderate to well sorted, subangular, predominately clear ad frosted quartz, occasional dark gray and dark brown chert, consolidated with silica dolomitic & calcareous cement, very hard, indurated, common fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

20% Shale

dark to medium gray, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

1695 to 1700 (5.00)

60% Shale

medium to dark gray, hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

40% Sandstone

light - medium gray, off white, silty to fine grained, moderate to well sorted, subangular, predominately clear & frosted quartz, occasional dark gray and dark brown chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1700 to 1705 (5.00)

60% Shale

medium to dark gray, hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone

40% Sandstone

medium gray, dark gray in part, off white, fine grained, silty in part, moderate to well sorted, subangular, predominately clear & frosted quartz, occasional dark gray and dark brown chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1705 to 1710 (5.00)

50% Sandstone

medium gray, dark gray in part, light to medium brown mottled gray, off white, silty to fine grained, moderate to well sorted, subangular, predominately clear & frosted quartz, occasional dark gray and dark brown chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

50% Shale

medium to dark gray, hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone

1710 to 1715 (5.00)

65% Sandstone

medium gray, dark gray in part, off white, fine grained, rare m-c grain poor-mod sorted, subangular to rounded in part, predominately clear & frosted quartz, common light to dark gray chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

35% Shale

medium to dark gray, hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, common slickenside, common calcite filled fractures, grading to siltstone.

1715 to 1720 (5.00)

50% Shale

dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

50% Sandstone

medium gray to dark gray in part, off white, fine grained, rare m-c grain, moderate sorted, subangular to rounded in part, clear & frosted quartz, abundant light to dark gray chert, common orange chert, common unconsolidated, silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1720 to 1725 (5.00)

50% Shale

dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

50% Sandstone

medium gray to dark gray, rare off white, fine grained, rare m-c grain, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, abundant light to dark gray chert, common orange chert, abundant lithics, common unconsolidated, silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1725 to 1730 (5.00)

60% Sandstone

medium gray to dark gray, rare off white, very fine to fine grained, rare medium to coarse grain, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, rare light to dark gray chert, abundant lithics, abundant loose, unconsolidated grains, silica, calcite and dolomitic cement, very hard, indurated, common fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

40% Shale

dark gray to black, as above, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1730 to 1735 (5.00)

70% Sandstone

medium gray to dark gray, fine grained, rare m-c grain, grading to siltstone, moderate sorted, subangular to rounded in part, angular in part, clear & frosted quartz, abundant light to dark gray chert, common orange chert, abundant lithics, common unconsolidated, silica, dolomitic & calcareous cement, very hard, indurated, common fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

30% Shale

dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1735 to 1740 (5.00)

65% Sandstone

medium gray to dark gray, rare off white, fine grained, rare m-c grain, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, abundant light to dark gray chert, abundant

lithics, common unconsolidated, silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

35% Shale

dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1740 to 1745 (5.00)

60% Sandstone

medium gray to dark gray, rare off white, fine grained, rare m-c grain, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, silica, dolomitic & calcareous cement, very hard, indurated, common fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

40% Shale

dark gray to black, firm to hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1745 to 1750 (5.00)

90% Shale

dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

10% Sandstone

light to medium gray to dark gray, fine grained, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, abundant light to dark gray chert, abundant lithics, common unconsolidated, silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1750 to 1755 (5.00)

90% Shale

dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

10% Sandstone

medium gray to dark gray, rare off white, fine grained, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, rare light to dark gray chert, abundant lithics, common unconsolidated, silica and dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1755 to 1760 (5.00)

100% Shale

dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1760 to 1765 (5.00)

85% Shale

dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

15% Sandstone

medium gray to dark gray, rare off white, fine grained, rare m-c grain, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, silica, dolomitic & calcareous cement, very hard, indurated, common fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1765 to 1770 (5.00)

70% Sandstone

light to medium gray to dark gray in part, very fine to fine grained, rare medium to coarse grain, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, occasional variable colored lithic chert, silica, dolomitic & calcareous cement, very hard, indurated, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

30% Shale

dark to medium gray, black in part, firm to hard, soft in part, blocky to fissile, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1770 to 1775 (5.00)

60% Sandstone

light to medium gray to dark gray in part, fine grained, occasional m-c grain, silty in part, silty matrix, poor to occasional moderate sorted, angular to subangular to subrounded in part, clear & frosted quartz, occasional variable colored lithic chert, silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

40% Shale

dark to medium gray, black in part, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1775 to 1780 (5.00)

80% Sandstone

light to medium gray to dark gray in part, f-m grained, occasional coarse grain, silty in part, silty matrix, poor to occasional moderate sorted, angular to subangular to subrounded in part, clear & frosted quartz, occasional variable colored lithic chert, silica, dolomitic & calcareous cement, very hard, indurated, common fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

20% Shale

dark to medium gray, black in part, predominately as above, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, occasional micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1780 to 1785 (5.00)

75% Shale

dark to medium gray, black in part, predominately as above, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, occasional micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

25% Sandstone

light to medium gray to dark gray in part, f-m grained, occasional coarse grain, silty in part, silty matrix, poor to occasional moderate sorted, angular to subangular to subrounded in part, clear & frosted quartz, occasional variable colored lithic chert, silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1785 to 1790 (5.00)

80% Shale

dark to medium gray, black in part, predominately as above, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, occasional micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

20% Sandstone

light to medium gray to dark gray in part, predominately as above, fine grained, occasional coarse grain, silty in part, poor to moderate sorted, angular to subangular to subrounded in part, clear & frosted quartz, occasional light gray lithic chert, silica, dolomitic & calcareous cement, very hard, indurated, abundant fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

1790 to 1795 (5.00)

90% Sandstone

light to medium gray, very fine to fine grained, rare medium grain, silty in part, poor to moderate sorted, angular to subangular, in part subround, predominately clear & frosted quartz, common gray chert, silica & calcareous cement, very hard, indurated, abundant fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

10% Shale

dark to medium gray, black in part, predominately as above, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, occasional micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1795 to 1800 (5.00)

80% Sandstone

light to medium gray, very fine to fine grained, rare medium grain, silty in part, poor to moderate sorted, angular to subangular, in part subround, predominately clear & frosted quartz, common gray chert, silica & calcareous cement, very hard, indurated, abundant fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

20% Shale

dark to medium gray, black in part, predominately as above, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, occasional micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1800 to 1805 (5.00)

80% Sandstone

light to medium gray, mottled gray, very fine to fine grained, rare medium grain, poor to moderate sorted, angular to subangular, in part subround, predominately clear & frosted quartz, silty in part, common gray chert, silica & calcareous cement, very hard, indurated, abundant fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

20% Shale

dark to medium gray, trace black, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, occasional micro micaceous, frequent carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1805 to 1810 (5.00)

70% Sandstone

medium - dark gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with

silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, common gray chert, grains of feldspar, lithic fragments & trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

30% Shale

dark to medium gray, trace black, firm to hard, blocky to platy, siliceous, dolomitic + calcareous matrix, silty, occasional micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

1810 to 1815 (5.00)

70% Sandstone

medium - dark gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, rare gray chert, grains of feldspar, lithic fragments, mica & trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

30% Shale

dark to medium gray, trace black, firm to hard, blocky to platy, siliceous, dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, frequent calcite filled fractures, grading to siltstone.

1815 to 1817 (2.00)

80% Sandstone

medium to dark gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, rare gray chert, minor grains of feldspar & mica, abundant lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows. (Btms up sample at 1817m. POOH for new Bit)

20% Shale

dark to medium gray, trace black, firm to hard, blocky to platy, siliceous, dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, frequent calcite filled fractures, common slickenside, grading to siltstone.

1817 to 1820 (3.00)

75% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

25% Shale

dark to medium gray, gray brown, firm to hard, blocky to platy, siliceous, dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous stringers, frequent calcite filled fractures, trace slickenside, grading to siltstone.

1820 to 1825 (5.00)

70% Shale

medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

30% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, occasional friable, occasional grains of feldspar, mica & lithic fragments, trace serpentine, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1825 to 1830 (5.00)

60% Shale

medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, weak dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

40% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, frequent friable, occasional grains of feldspar, mica & lithic fragments, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1830 to 1835 (5.00)

50% Shale

medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, weak dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, occasional slickenside, grading to siltstone.

50% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1835 to 1840 (5.00)

50% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

50% Shale

medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, weak dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, occasional slickenside, grading to siltstone.

1840 to 1845 (5.00)

60% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

40% Shale

medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, weak dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, occasional slickenside, grading to siltstone.

1845 to 1850 (5.00)

70% Shale

medium to dark gray, gray brown, firm to hard, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

30% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, occasional friable, common grains of feldspar, mica & lithic fragments, trace serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1850 to 1855 (5.00)

70% Shale

medium to dark gray, gray brown, firm to hard, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

30% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, occasional friable, common grains of feldspar, mica & lithic fragments, trace serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1855 to 1860 (5.00)

70% Shale

medium to dark gray, gray brown, firm to hard, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

30% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, occasional friable, common grains of feldspar, mica & lithic fragments, trace serpentine, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1860 to 1865 (5.00)

70% Shale

dark to medium gray, gray brown, firm to hard, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

30% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate sorted, subangular, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, occasional friable, common grains of feldspar, mica & lithic fragments, abundant fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1865 to 1870 (5.00)

75% Shale

dark to medium gray, gray brown, firm to hard, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

25% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate sorted, subangular, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, silty in part, occasional friable, common grains of feldspar, mica & lithic fragments, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

1870 to 1875 (5.00)

60% Shale

dark to medium gray, gray brown, firm to hard, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, abundant carbonaceous stringers, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

40% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, common medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1875 to 1880 (5.00)

65% Shale

dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickenside, grading to siltstone.

35% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar & mica, abundant lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1880 to 1890 (10.00)

50% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica & lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

50% Shale

dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, common slickenside, grading to siltstone.

1890 to 1900 (10.00)

60% Shale

dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous streaks, frequent calcite filled fractures, occasional slickenside, grading to siltstone.

40% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica & lithic fragments, trace serpentine, occasional fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1900 to 1905 (5.00)

80% Shale

dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous streaks, frequent calcite filled fractures, occasional slickenside, grading to siltstone.

20% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica & lithic fragments, trace serpentine, occasional fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1905 to 1910 (5.00)

60% Shale

dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous streaks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

40% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, abundant grains of feldspar, mica & lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1910 to 1915 (5.00)

50% Shale

dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous streaks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

50% Sandstone

medium to light gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1915 to 1920 (5.00)

60% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

40% Shale

dark to medium gray, gray brown, firm to hard, common brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1920 to 1925 (5.00)

65% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, disseminated fine grained pyrite, abundant fractures filled with white & clear calcite, 3% to 5% intergranular porosity, no shows.

35% Shale

dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, abundant carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1925 to 1930 (5.00)

55% Shale

dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, abundant carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

45% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, disseminated fine grained pyrite, abundant fractures filled with white & clear calcite, 3% to 5% intergranular porosity, no shows.

1930 to 1935 (5.00)

60% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, disseminated fine grained pyrite, abundant fractures filled with white & clear calcite, 3% to 5% intergranular porosity, no shows.

40% Shale

dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, abundant carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1935 to 1939 (4.00)

65% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, disseminated fine grained pyrite, abundant fractures filled with white & clear calcite, 3% to 5% intergranular porosity, no shows. (POOH for new Bit & BOP Testing)

35% Shale

dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1939 to 1945 (6.00)

90% Shale

dark to medium gray, gray brown, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

10% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, occasional grains of feldspar, mica, lithic fragments & trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

1945 to 1950 (5.00)

75% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

25% Shale

dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1950 to 1955 (5.00)

65% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, silty in part, frequent grains of feldspar, mica, lithic fragments & serpentine, disseminated fine grained pyrite, occasional fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

35% Shale

dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous stringers, occasional calcite filled fractures, frequent slickensided, grading to siltstone.

1955 to 1960 (5.00)

80% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional quartzitic, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows. (3-5% burnt cuttings) POOH for new Bit.

20% Shale

dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1960 to 1965 (5.00)

75% Sandstone

medium to light gray, mottled gray, off white, dark gray, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, frequent grains of feldspar, mica, lithic fragments & trace serpentine, abundant fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

25% Shale

dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone, trace light brown limestone.

Formation: Goose(American) Tickle TVD: 1967.96m MD: 1968m 283m

1965 to 1970 (5.00)

70% Sandstone

medium to light gray, green gray, off white, dark gray, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace glauconite, abundant fractures filled with white & clear calcite, 3% to 8% intergranular porosity, no shows. (At 1968-1968.5m: TG=15.27%; C1=14.73%; C2=0.29%; C3=0.24%; C4=trace; C5=trace)

30% Shale

dark to medium gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1970 to 1975 (5.00)

70% Sandstone

medium to light gray, green gray, gray green, off white, dark gray, clear, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace glauconite, frequent fractures filled with white & clear calcite, 3% to 6% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1975 to 1980 (5.00)

75% Sandstone

medium to light gray, gray green, off white, dark gray, clear, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace glauconite, frequent fractures filled with white & clear calcite, 3% to 6% intergranular porosity, no shows.

25% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1980 to 1985 (5.00)

60% Sandstone

medium to light gray, gray green, off white, dark gray, clear, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, silty in part, frequent grains of feldspar, mica, lithic fragments & trace glauconite, frequent fractures filled with white & clear calcite, 3% to 6% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1985 to 1990 (5.00)

80% Sandstone

medium to light gray, gray green, off white, dark gray, clear, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, slightly friable, very silty, occasional grains of feldspar, mica, lithic fragments & trace glauconite, frequent fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

20% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1990 to 1995 (5.00)

70% Sandstone

medium to light gray, gray green, off white, dark gray, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, occasional friable, very silty, occasional grains of feldspar, mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

1995 to 2000 (5.00)

60% Sandstone

medium to dark gray, speckled brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz + feldspar, consolidated with silica, dolomite & calcareous cement, firm to hard, moderate indurated, frequent friable, very silty, abundant bronze mica matrix, common lithic fragments & trace glauconite, frequent fractures filled with white calcite, 5% to 8% intergranular porosity, no shows.

40% Shale

medium gray brown, trace green gray, firm to hard, blocky to platy, earthy, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, occasional calcite filled fractures, trace slickensided, grading to fine grained siltstone.

2000 to 2005 (5.00)

70% Sandstone

medium to dark gray, speckled brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz + feldspar, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, frequent friable, very silty, abundant bronze mica matrix, common lithic fragments & trace glauconite, frequent fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

30% Shale

medium gray brown, dark gray, trace green gray, firm to hard, blocky to platy, earthy, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, occasional calcite filled fractures, trace slickensided, grading to fine grained siltstone.

2005 to 2010 (5.00)

75% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, abundant medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, trace friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

25% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2010 to 2015 (5.00)

60% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, abundant medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, trace friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2015 to 2020 (5.00)

70% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, firm to hard, frequent brittle, blocky to platy, earthy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2020 to 2025 (5.00)

60% Shale

dark to medium gray, green gray, firm to hard, frequent brittle, blocky to platy, earthy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

40% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz,

consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

2025 to 2030 (5.00)

55% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

45% Shale

dark to medium gray, green gray, firm to hard, frequent brittle, blocky to platy, earthy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2030 to 2035 (5.00)

55% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

45% Shale

dark to medium gray, green gray, firm to hard, frequent brittle, blocky to platy, earthy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2035 to 2040 (5.00)

60% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, common disseminated pyrite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, firm to hard, frequent brittle, blocky to platy, earthy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2040 to 2045 (5.00)

80% Sandstone

medium to light gray, speckled gray brown, off white, clear, trace gray green, very fine to fine grained, abundant medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, trace friable, silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

20% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, earthy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2045 to 2050 (5.00)

60% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2050 to 2055 (5.00)

70% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, frequent friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 6% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2055 to 2060 (5.00)

80% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weak indurated, frequent friable with increase ROP, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 12% intergranular porosity, no shows. (At 2058.0-2059.5m: TG=20.07%; C1=19.45%; C2=0.31%; C3=0.30%; C4=trace; C5=trace)

20% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2060 to 2065 (5.00)

80% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weak indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

20% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2065 to 2070 (5.00)

70% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weak indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2070 to 2075 (5.00)

70% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weak indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2075 to 2080 (5.00)

70% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weak indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2080 to 2085 (5.00)

60% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, abundant lithic fragments & trace glauconite & chromite, minor disseminated pyrite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, occasional slickensided, grading to siltstone.

2085 to 2090 (5.00)

60% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica & lithic fragments, trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, occasional slickensided, grading to siltstone.

2090 to 2095 (5.00)

60% Shale

dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

40% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica & lithic fragments, trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2095 to 2100 (5.00)

70% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, abundant lithic fragments & trace glauconite & chromite, minor disseminated pyrite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2100 to 2105 (5.00)

80% Sandstone

medium to light gray, speckled gray brown, off white, clear, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, trace friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments & trace glauconite & chromite, minor disseminated pyrite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

20% Shale

dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2105 to 2110 (5.00)

75% Sandstone

medium to light gray, speckled gray brown, off white, clear, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, trace friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & chromite, minor disseminated pyrite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

25% Shale

dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2110 to 2115 (5.00)

70% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & chromite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

30% Shale

dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2115 to 2125 (10.00)

60% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & chromite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2125 to 2130 (5.00)

65% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & chromite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

35% Shale

dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2130 to 2135 (5.00)

50% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & chromite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

50% Shale

dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

2135 to 2140 (5.00)

55% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite, occasional fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

45% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, occasional calcite filled fractures, common slickensided, grading to siltstone.

2140 to 2145 (5.00)

60% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grain, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty,

frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & disseminated pyrite, frequent fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, common slickensided, grading to siltstone.

2145 to 2150 (5.00)

60% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grain, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, frequent friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & disseminated pyrite, frequent fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant white calcite filled fractures, common slickensided, grading to siltstone.

2150 to 2155 (5.00)

80% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, slightly fissile, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous specks, abundant white calcite filled fractures, common slickensided, grading to siltstone.

20% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, trace glauconite & disseminated pyrite, occasional fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2155 to 2160 (5.00)

90% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous specks, abundant white calcite filled fractures, common slickensided, grading to siltstone.

10% Sandstone

medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, occasional fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2160 to 2165 (5.00)

80% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous specks, common fine disseminated pyrite, abundant white calcite filled fractures, common slickensided, grading to siltstone.

20% Sandstone

medium to light gray, speckled gray brown, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, occasional fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2165 to 2170 (5.00)

70% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, frequent carbonaceous specks, common fine disseminated pyrite, occasional white calcite filled fractures, common slickensided, grading to siltstone.

30% Sandstone

medium to dark gray, speckled gray brown, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica, abundant lithic fragments, occasional fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2170 to 2175 (5.00)

80% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, common fine disseminated pyrite, occasional white calcite filled fractures, common slickensided, grading to siltstone.

20% Sandstone

medium to dark gray, speckled gray brown, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, occasional fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2175 to 2180 (5.00)

70% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, common fine disseminated pyrite, occasional white calcite filled fractures, minor slickensided, grading to siltstone.

30% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, minor fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2180 to 2185 (5.00)

70% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent fine disseminated pyrite, & white calcite filled fractures, minor slickensided, grading to siltstone.

30% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, minor fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2185 to 2195 (10.00)

60% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent fine disseminated pyrite, & white calcite filled fractures, common slickensided, grading to siltstone.

40% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, frequent friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, minor fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2195 to 2200 (5.00)

50% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent fine disseminated pyrite, & white calcite filled fractures, common slickensided, grading to siltstone.

50% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, minor fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2200 to 2205 (5.00)

60% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, minor fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent fine disseminated pyrite, minor white calcite filled fractures, common slickensided, grading to siltstone.

2205 to 2210 (5.00)

50% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, occasional fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

50% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent fine disseminated pyrite, occasional white calcite filled fractures, common slickensided, grading to siltstone.

2210 to 2215 (5.00)

60% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, trace fine disseminated pyrite, frequent white calcite filled fractures, common slickensided, grading to siltstone.

2215 to 2220 (5.00)

60% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate - poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

40% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, trace fine disseminated pyrite, frequent white calcite filled fractures, common slickensided, grading to siltstone.

2220 to 2223 (3.00)

50% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows. (Btms up @2223m: POOH)

50% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, frequent white calcite filled fractures, common slickensided, grading to siltstone.(Btms up: POOH at 2223m)

2223 to 2225 (2.00)

60% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous, frequent carbonaceous stringers, abundant white calcite filled fractures, common slickensided, grading to siltstone.

40% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2225 to 2230 (5.00)

65% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous, frequent carbonaceous stringers, occasional white calcite filled fractures & fine disseminated pyrite, common slickensided, grading to siltstone.

35% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, occasional medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2230 to 2235 (5.00)

75% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous, occasional carbonaceous stringers, frequent white calcite filled fractures, abundant pyrite nodules, common slickensided, grading to siltstone.

25% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2235 to 2240 (5.00)

85% Shale

dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, frequent micro

micaceous, occasional carbonaceous stringers & white calcite filled fractures, abundant pyrite nodules, common slickensided, grading to siltstone.

15% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

2240 to 2250 (10.00)

90% Shale

dark to medium gray, green gray, occasional black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, frequent micro micaceous, occasional carbonaceous stringers & white calcite filled fractures, abundant pyrite nodules, common slickensided, grading to siltstone.

10% Sandstone

medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

Formation: Table Point TVD: 2250.94m MD: 2251m 196m

2250 to 2255 (5.00)

70% Limestone

white, buff, light brown, mudstone, massive, micro crystalline to cryptocrystalline, chalky, firm to hard, occasional stylolites, disseminated pyrite, fractures with abundant white calcite, tight, no shows.

30% Shale

dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.

2255 to 2260 (5.00)

90% Limestone

white, buff, light brown, mudstone, massive, micro crystalline to cryptocrystalline, chalky, firm to hard, occasional stylolites, disseminated pyrite, fractures with abundant white calcite, tight, no shows.

10% Shale

dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.

2260 to 2265 (5.00)

95% Limestone

white, buff, light brown, mudstone, massive, micro crystalline to cryptocrystalline, chalky, firm to hard, occasional stylolites, disseminated pyrite, fractures with abundant white calcite, trace bitumen staining, tight, no shows.

5% Shale

dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.

2265 to 2270 (5.00)

95% Limestone

white, buff, light - dark brown, mudstone, massive, micro crystalline to cryptocrystalline, firm to hard, chalky, frequent stylolites, trace disseminated pyrite, abundant fractures filled with white calcite, trace bitumen staining, tight, no shows.

5% Shale

dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.

2270 to 2275 (5.00)

95% Limestone

white, buff, light - dark brown, mudstone, massive, micro crystalline to cryptocrystalline, firm to hard, in part chalky, frequent stylolites, trace disseminated pyrite, abundant fractures filled with white calcite, trace bitumen staining, tight, no shows.

5% Shale

dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.

2275 to 2280 (5.00)

100% Limestone

white, buff, mottled light - dark brown, mudstone to wackestone, massive, micro crystalline to cryptocrystalline, firm to hard, in part brittle, common chalky, frequent stylolites & carbonaceous streaks, slightly argillaceous, trace disseminated pyrite, abundant fractures filled with white calcite, trace bitumen staining, tight, no shows.

2280 to 2285 (5.00)

100% Limestone

white, buff, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, frequent stylolites, trace carbonaceous specks, slightly argillaceous, abundant fractures filled with white calcite, trace bitumen staining, tight, no shows.(POOH at 2285m to Wireline Log & run 244mm Intermediate Casing)

2285 to 2290 (5.00)

95% Limestone

buff, white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, trace stylolites, occasional carbonaceous specks, slightly argillaceous, common fractures filled with white calcite, trace bitumen staining, tight, no shows

5% Cement

light brown, gray brown, soft to firm, trace brittle.

2290 to 2300 (10.00)

100% Limestone

buff, white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, trace stylolites, occasional carbonaceous specks, slightly argillaceous, common fractures filled with white calcite, trace bitumen staining, tight, no shows

2300 to 2310 (10.00)

100% Limestone

buff, white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, trace stylolites, occasional carbonaceous specks, slightly argillaceous, common fractures filled with white calcite, trace bitumen staining, tight, no shows

2310 to 2315 (5.00)

100% Limestone

buff, white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, trace stylolites, occasional carbonaceous specks, slightly argillaceous, common fractures filled with white calcite, trace bitumen staining, tight, no shows

2315 to 2320 (5.00)

100% Limestone

mottled light - dark brown, buff, off white, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, minor chalky, occasional stylolites, frequent carbonaceous stringers, slightly argillaceous, common fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows

2320 to 2325 (5.00)

100% Limestone

buff, off white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites, frequent carbonaceous stringers, slightly argillaceous, common fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2325 to 2330 (5.00)

98% Limestone

buff, off white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites, frequent carbonaceous stringers, slightly argillaceous, common fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2% Shale

dark gray, black, firm to hard, in part brittle, platy, silty, slightly calcareous, frequent carbonaceous specks.

2330 to 2335 (5.00)

100% Limestone

buff, off white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites, frequent carbonaceous stringers, slightly argillaceous, common fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2335 to 2340 (5.00)

100% Limestone

buff, off white, occasional mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites, trace carbonaceous stringers, slightly argillaceous, common fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2340 to 2345 (5.00)

100% Limestone

buff, off white, frequent mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites, trace carbonaceous stringers, slightly argillaceous, common fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2345 to 2350 (5.00)

99% Limestone

buff, off white, occasional mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites, trace carbonaceous stringers, slightly argillaceous, common fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

1% Shale

dark gray, black, firm to hard, in part brittle, platy, silty, slightly calcareous, frequent carbonaceous specks.

2350 to 2355 (5.00)

100% Limestone

mottled light - dark brown, buff, off white, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, occasional chalky, occasional stylolites, frequent carbonaceous stringers, common argillaceous, occasional fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2355 to 2360 (5.00)

100% Limestone

buff, off white, trace mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, occasional chalky, occasional stylolites, frequent carbonaceous stringers, common argillaceous, occasional fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2360 to 2370 (10.00)

100% Limestone

buff, off white, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace stylolites, minor argillaceous, occasional fractures filled with white & clear calcite, trace bitumen staining & fine disseminated pyrite, no visible porosity, no shows.

2370 to 2375 (5.00)

100% Limestone

buff, off white, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace stylolites, minor argillaceous, occasional fractures filled with white & clear calcite, trace bitumen staining & fine disseminated pyrite, no visible porosity, no shows.

2375 to 2385 (10.00)

100% Limestone

white, buff, off white, mottled light gray, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, abundant chalky, trace stylolites, minor argillaceous, trace fractures filled with white & clear calcite, occasional bitumen staining, no visible porosity, no shows.

2385 to 2390 (5.00)

100% Limestone

white, buff, off white, trace mottled light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, abundant chalky, trace stylolites, minor argillaceous, trace fractures filled with white & clear calcite, occasional bitumen staining, no visible porosity, no shows.

2390 to 2395 (5.00)

100% Limestone

buff, off white, frequent mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites filled with carbonaceous matter, common carbonaceous stringers, slightly argillaceous, frequent fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2395 to 2400 (5.00)

100% Limestone

buff, off white, occasional mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, frequent chalky, trace carbonaceous stringers, slightly argillaceous, minor fractures filled with white & clear calcite, occasional bitumen staining, no visible porosity, no shows.

2400 to 2405 (5.00)

100% Limestone

buff, off white, trace mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, abundant chalky, trace carbonaceous stringers, slightly argillaceous, minor fractures filled with white & clear calcite, occasional bitumen staining, no visible porosity, no shows.

2405 to 2410 (5.00)

100% Limestone

buff, off white, trace mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous stringers, slightly argillaceous, minor fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

2410 to 2415 (5.00)

100% Limestone

buff, off white, trace mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks, slightly argillaceous, trace bitumen staining, no visible porosity, no shows.

2415 to 2420 (5.00)

100% Limestone

white, buff, off white, occasional mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks, slightly argillaceous, trace bitumen staining, no visible porosity, no shows.

2420 to 2425 (5.00)

100% Limestone

white, buff, off white, trace mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, abundant chalky, trace carbonaceous specks & bitumen staining, no visible porosity, no shows.

2425 to 2430 (5.00)

100% Limestone

white, off white, buff, trace mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, abundant chalky, trace carbonaceous specks & bitumen staining, no visible porosity, no shows.

2430 to 2435 (5.00)

100% Limestone

white, buff, off white, frequent mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks & bitumen staining, no visible porosity, no shows.

2435 to 2445 (10.00)

100% Limestone

white, buff, off white, occasional mottled light - medium brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks & bitumen staining, no visible porosity, no shows.

Formation: Aguathuna TVD: 2446.93m MD: 2447m 48m

2445 to 2450 (5.00)

70% Limestone

white, buff, off white, light brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks & bitumen staining, no visible porosity, no shows.

30% Dolomite

white off white, light brown, micro crystalline to crystalline, massive, occasional granular, trace re-crystallization, firm to hard, in part brittle, poor intercrystalline porosity, no shows.

2450 to 2455 (5.00)

90% Limestone

white, buff, off white, light brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks & bitumen staining, no visible porosity, no shows.

10% Dolomite

white off white, light brown, micro crystalline to crystalline, massive, occasional granular, trace recrystallization, firm to hard, in part brittle, poor intercrystalline porosity, no shows.

2455 to 2460 (5.00)

80% Limestone

white, buff, off white, light brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks & bitumen staining, no visible porosity, no shows.

20% Dolomite

white off white, light brown, micro crystalline to crystalline, massive, occasional granular, trace recrystallization, firm to hard, in part brittle, poor intercrystalline porosity, no shows.

2460 to 2465 (5.00)

50% Dolomite

white off white, light brown, micro crystalline to crystalline, massive, occasional granular, trace recrystallization, firm to hard, in part brittle, poor intercrystalline porosity, no shows.

50% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, occasional stylolites, argillaceous, no visible porosity, no shows.

2465 to 2470 (5.00)

50% Dolomite

white off white, light brown, micro crystalline to crystalline, massive, occasional granular, trace recrystallization, firm to hard, in part brittle, poor intercrystalline porosity, no shows.

48% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, occasional stylolites, argillaceous, no visible porosity, no shows.

2% Shale

light gray, gray green, firm to hard, blocky to platy, waxy, non calcareous.

2470 to 2480 (10.00)

85% Dolomite

light brown, off white, buff, micro crystalline to fine crystalline, massive, granular, trace recrystallization, occasional sucrosic, firm to hard, in part brittle, blocky to platy, trace bitumen staining, poor intercrystalline porosity, no shows.

15% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, occasional stylolites, argillaceous, no visible porosity, no shows.

2480 to 2490 (10.00)

80% Dolomite

light brown, off white, buff, micro crystalline to fine crystalline, massive, granular, trace recrystallization, occasional sucrosic, firm to hard, in part brittle, blocky to platy, frequent argillaceous, trace bitumen staining, poor intercrystalline porosity, no shows.

20% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, occasional stylolites, argillaceous, no visible porosity, no shows.

2490 to 2495 (5.00)

90% Dolomite

mottled light to dark brown, buff, micro crystalline to crystalline, massive, granular, frequent recrystallization, common sucrosic, firm to hard, in part brittle, blocky to platy, frequent argillaceous, trace bitumen staining, occasional fine disseminated pyrite, poor intercrystalline porosity, no shows.

10% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, occasional stylolites, argillaceous, no visible porosity, no shows.

Formation: Catoche TVD: 2494.93m MD: 2495m 125m

2495 to 2500 (5.00)

90% Dolomite

mottled light to dark brown, buff, off white, micro crystalline to crystalline, massive, granular, frequent recrystallization, common sucrosic, firm to hard, in part brittle, blocky to platy, frequent argillaceous, trace bitumen staining, occasional fine disseminated pyrite, occasional stylolites in filled with bitumen, poor intercrystalline porosity, no shows.

9% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, occasional stylolites, argillaceous, no visible porosity, no shows.

1% Shale

dark to medium gray, firm to hard, blocky to platy, non calcareous.

2500 to 2505 (5.00)

90% Dolomite

buff, off white, cream, light brown, micro crystalline to fine crystalline, massive, granular, common recrystallization, frequent sucrosic texture, firm to hard, in part brittle, slightly siliceous, blocky to platy, minor fine disseminated pyrite, occasional stylolites in filled with bitumen, poor intercrystalline porosity, no shows.

10% Limestone

white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, occasional stylolites, argillaceous, no visible porosity, no shows.

2505 to 2510 (5.00)

95% Dolomite

buff, off white, cream, light brown, micro crystalline to fine crystalline, frequent coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, slightly siliceous, blocky to platy, minor fine disseminated pyrite, occasional stylolites in filled with bitumen, poor intercrystalline porosity, no shows.

5% Limestone

gray brown, dark gray, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, very argillaceous, trace clear calcite veining, no visible porosity, no shows.

2510 to 2515 (5.00)

95% Dolomite

buff, off white, cream, light brown, micro crystalline to fine crystalline, occasional coarse crystalline, massive, granular, common recrystallization, frequent sucrosic texture, firm to hard, in part brittle, frequent siliceous, blocky to platy, minor fine disseminated pyrite, occasional stylolites in filled with bitumen, poor intercrystalline porosity, no shows.

5% Limestone

gray brown, dark gray, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, very argillaceous, trace clear calcite veining, trace gray green shale, no visible porosity, no shows.

2515 to 2520 (5.00)

95% Dolomite

buff, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, frequent sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional stylolites in filled with bitumen, poor intercrystalline porosity, no shows.

3% Limestone

gray brown, dark gray, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, very argillaceous, trace clear calcite veining, no visible porosity, no shows.

2% Shale

light gray green, firm to hard, blocky to platy, non calcareous.

2520 to 2525 (5.00)

95% Dolomite

buff, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, frequent sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, poor intercrystalline porosity, no shows.

4% Limestone

gray brown, dark gray, off white, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, very argillaceous, trace clear calcite veining, no visible porosity, no shows.

1% Shale

light gray green, firm to hard, blocky to platy, non calcareous, trace light brown chert + disseminated pyrite.

2525 to 2530 (5.00)

95% Dolomite

buff, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

4% Limestone

white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.

1% Chert

light gray, off white, very hard, conchoidal, frequent disseminated pyrite.

2530 to 2540 (10.00)

85% Dolomite

buff, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

14% Limestone

white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.

1% Shale

light to medium gray, firm to hard, blocky to platy, non calcareous, trace light brown chert.

2540 to 2550 (10.00)

85% Dolomite

white, buff, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, trace sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

15% Limestone

white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.

2550 to 2555 (5.00)

85% Dolomite

white, buff, cream, mottled light to medium brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, trace sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

13% Limestone

white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.

2% Shale

light to medium gray, firm to hard, blocky to platy, non calcareous, trace light brown chert.

2555 to 2560 (5.00)

85% Dolomite

mottled gray brown, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, trace sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

13% Limestone

white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.

2% Shale

light to medium gray, firm to hard, blocky to platy, non calcareous, trace light brown chert.

2560 to 2565 (5.00)

90% Dolomite

mottled gray brown, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, trace sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

10% Limestone

white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.

2565 to 2570 (5.00)

90% Dolomite

mottled medium to dark brown, off white, micro crystalline to crystalline, frequent coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional carbonaceous matter, frequent veining with clear rhombic crystals, trace bitumen staining, poor intercrystalline porosity, no shows.

10% Limestone

white, gray brown, cream, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.

2570 to 2575 (5.00)

90% Dolomite

mottled medium to dark brown, off white, micro crystalline to crystalline, occasional coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, minor veining with clear rhombic crystals, occasional carbonaceous matter & dark gray shale laminae, trace bitumen staining, poor intercrystalline porosity, no shows.

10% Limestone

white, gray brown, cream, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, chalky, no visible porosity, no shows.

2575 to 2580 (5.00)

90% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional veining with clear rhombic crystals, occasional carbonaceous matter & dark gray shale laminae, trace bitumen staining, poor intercrystalline porosity, no shows.

10% Limestone

white, gray brown, cream, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, chalky, trace light brown chert, no visible porosity, no shows.

2580 to 2585 (5.00)

90% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional veining with clear dolo- rhombic crystals, common carbonaceous matter, occasional bitumen staining, poor intercrystalline porosity, no shows.

10% Limestone

light brown, cream, off white, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, chalky, no visible porosity, no shows.

2585 to 2590 (5.00)

90% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite + trace nodular pyrite, occasional veining with clear dolo- rhombic crystals, common carbonaceous matter, occasional bitumen staining, poor intercrystalline porosity, no shows.

10% Limestone

light brown, cream, off white, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, chalky, no visible porosity, no shows.

2590 to 2595 (5.00)

90% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional veining with clear dolo- rhombic crystals, common carbonaceous matter, occasional bitumen staining, poor intercrystalline porosity, no shows.

10% Limestone

off white, cream, light brown, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, very chalky, no visible porosity, no shows.

2595 to 2600 (5.00)

75% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional veining with clear dolo- rhombic crystals, common carbonaceous matter, occasional bitumen staining, poor intercrystalline porosity, no shows.

25% Limestone

white, off white, cream, light brown, mudstone, massive, firm to hard, in part brittle, occasional stylolites, argillaceous, trace clear calcite veining, abundant chalky, no visible porosity, no shows.

2600 to 2605 (5.00)

75% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part

brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional veining with clear dolo- rhombic crystals, common carbonaceous matter, occasional bitumen staining, poor intercrystalline porosity, no shows.

25% Limestone

white, off white, cream, light brown, mudstone, massive, firm to hard, in part brittle, occasional stylolites, argillaceous, trace clear calcite veining, abundant chalky, no visible porosity, no shows.

2605 to 2610 (5.00)

80% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, frequent sucrosic texture, firm to hard, in part brittle, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite, frequent fractures in filled with abundant clear & white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

20% Limestone

mottled light brown, cream, off white, buff, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, very white chalky, stylolitic with bitumen staining, occasional calcite veining, no visible porosity, no shows.

2610 to 2615 (5.00)

70% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, trace coarse crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional fractures in filled with clear & white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

30% Limestone

off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, very white chalky, stylolitic with bitumen staining, occasional calcite veining, no visible porosity, no shows.

2615 to 2620 (5.00)

70% Limestone

off white, buff, mottled light brown, mudstone, microcrystalline to cryptocrystalline, soft to firm, friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, no visible porosity, no shows.

30% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, trace coarse crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional fractures in filled with white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

Formation: Boat Harbour TVD: 2619.93m MD: 2620m 124m

2620 to 2630 (10.00)

80% Limestone

off white, buff, mottled light brown, mudstone, microcrystalline to cryptocrystalline, soft to firm, friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, no visible porosity, no shows.

20% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, trace coarse crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional fractures in filled with white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

2630 to 2635 (5.00)

75% Limestone

off white, buff, mottled light brown, mudstone, microcrystalline to cryptocrystalline, soft to firm, friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, no visible porosity, no shows.

25% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, blocky to platy, occasional fractures in filled with white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

2635 to 2640 (5.00)

90% Limestone

off white, buff, mottled light brown, mudstone, microcrystalline to cryptocrystalline, soft to firm, friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, no visible porosity, no shows.

10% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, blocky to platy, occasional fractures in filled with white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

2640 to 2645 (5.00)

80% Limestone

off white, buff, mottled light brown, mudstone, microcrystalline to cryptocrystalline, firm to hard, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, no visible porosity, no shows.

20% Dolomite

mottled medium to dark brown, off white, cream, micro crystalline to crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, blocky to platy, occasional fractures in filled with white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

2645 to 2670 (25.00)

100% Limestone

medium to light brown, cream, off white, dark brown mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, no visible porosity, no shows.

2670 to 2675 (5.00)

100% Limestone

medium to light brown, cream, off white, dark brown mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, minor carbonaceous shale laminae, no visible porosity, no shows.

2675 to 2680 (5.00)

100% Limestone

medium to light brown, cream, off white, dark brown mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, minor carbonaceous & shale laminae, no visible porosity, no shows.

2680 to 2685 (5.00)

100% Limestone

off white, cream, medium to light brown, dark brown, mudstone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, occasional fine disseminated pyrite, no visible porosity, no shows.

2685 to 2690 (5.00)

100% Limestone

off white, cream, medium to light brown, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, frequent dark argillaceous bands, occasional fine disseminated pyrite, no visible porosity, no shows.

2690 to 2695 (5.00)

100% Limestone

off white, cream, medium to light brown, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, frequent dark argillaceous bands, occasional fine disseminated pyrite, occasional dolomitic, no visible porosity, no shows.

2695 to 2700 (5.00)

98% Limestone

off white, cream, medium to light brown, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, frequent dark argillaceous bands, occasional fine disseminated pyrite, no visible porosity, no shows.

2% Dolomite

dark brown, firm to hard, in part brittle, fine crystalline, platy, slightly sucrosic, poor intercrystalline porosity, no shows.

2700 to 2705 (5.00)

98% Limestone

off white, cream, light brown to dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, frequent dark argillaceous bands, trace fine disseminated pyrite, no visible porosity, no shows.

2% Dolomite

dark brown, firm to hard, in part brittle, fine crystalline, platy, slightly sucrosic, poor intercrystalline porosity, no shows.

2705 to 2715 (10.00)

98% Limestone

off white, cream, light brown to dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, frequent dark argillaceous bands, trace fine disseminated pyrite, no visible porosity, no shows.

2% Dolomite

dark brown, firm to hard, in part brittle, fine crystalline, platy, slightly sucrosic, poor intercrystalline porosity, no shows.

2715 to 2720 (5.00)

100% Limestone

off white, cream, light brown to dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, occasional stylolitic with bitumen staining, common calcite veining, frequent dark argillaceous bands, trace fine disseminated pyrite, no visible porosity, no shows.

2720 to 2725 (5.00)

98% Limestone

off white, cream, light brown to dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, occasional stylolitic with bitumen staining, common calcite veining, frequent dark argillaceous bands, no visible porosity, no shows.

2% Dolomite

dark brown, firm to very hard, in part brittle, fine crystalline, platy, slightly sucrosic, poor intercrystalline porosity, no shows.

2725 to 2730 (5.00)

98% Limestone

off white, cream, light brown to dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, occasional stylolitic with bitumen staining, common calcite veining, frequent dark argillaceous bands, no visible porosity, no shows.

2% Dolomite

dark brown, firm to very hard, in part brittle, fine crystalline, platy, slightly sucrosic, argillaceous, poor intercrystalline porosity, no shows.

2730 to 2735 (5.00)

95% Limestone

off white, cream, light brown to dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, occasional stylolitic with bitumen staining, common calcite veining, frequent dark argillaceous bands, no visible porosity, no shows.

5% Dolomite

dark brown, firm to very hard, in part brittle, fine crystalline, platy, slightly sucrosic, argillaceous, poor intercrystalline porosity, no shows.

2735 to 2740 (5.00)

95% Limestone

ff white, cream, light brown to dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, occasional stylolitic with bitumen staining, common calcite veining, frequent dark argillaceous bands, common dark gray shale laminae, no visible porosity, no shows.

5% Dolomite

dark brown, firm to very hard, in part brittle, fine crystalline, platy, slightly sucrosic, argillaceous, poor intercrystalline porosity, no shows.

Formation: Watts Bight TVD: 2743.93m MD: 2744m 68m

2740 to 2745 (5.00)

50% Dolomite

light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, occasional sub sucrosic text, frequent evidence of recrystallization, abundant veining with frequent coarse white dolomitic aggregate, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

50% Limestone

white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.

2745 to 2750 (5.00)

50% Dolomite

light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, occasional sub sucrosic text, frequent evidence of recrystallization, abundant veining with frequent coarse white dolomitic aggregate, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

50% Limestone

white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.

2750 to 2755 (5.00)

80% Dolomite

light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, occasional sub sucrosic text, frequent evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

20% Limestone

white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.

2755 to 2760 (5.00)

90% Dolomite

light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, occasional sub sucrosic text, frequent evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

10% Limestone

white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.

2760 to 2765 (5.00)

100% Dolomite

light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, minor sub sucrosic text, frequent evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, occasional dark gray shale laminae, trace bitumen staining, poor intercrystalline porosity, no shows.

2765 to 2770 (5.00)

80% Dolomite

light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, minor sub sucrosic text, frequent evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

20% Limestone

white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.

2770 to 2780 (10.00)

100% Dolomite

light - dark brown, buff, cream, off white, micro crystalline to abundant coarse crystalline, massive, minor sub sucrosic text, abundant evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, trace bitumen staining, common dark gray shale laminae, poor intercrystalline porosity, no shows.

2780 to 2785 (5.00)

100% Dolomite

light - dark brown, buff, cream, off white, micro crystalline to abundant coarse crystalline, massive, minor sub sucrosic text, abundant evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, trace bitumen staining, common dark gray shale laminae, frequent light brown chert, poor intercrystalline porosity, no shows.

2785 to 2790 (5.00)

98% Dolomite

light - medium brown, buff, cream, off white, micro crystalline to fine crystalline, massive, minor sub sucrosic text, abundant evidence of recrystallization, veining with occasional coarse white dolo-rhombic aggregates, hard to firm, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, trace bitumen staining, frequent gray green shale laminae, poor intercrystalline porosity, no shows.

2% Limestone

white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.

2790 to 2795 (5.00)

98% Dolomite

light - dark brown, buff, cream, off white, micro crystalline to fine crystalline, abundant coarse crystalline, massive, occasional sub sucrosic text, abundant evidence of recrystallization, veining with frequent coarse white dolo-rhombic aggregates, hard to firm, brittle, cemented with dolosparite, platy to sub angular, in part friable, occasional fine disseminated pyrite, abundant gray green shale laminae, trace bitumen staining, poor intercrystalline porosity, no shows.

2% Chert

light brown, pale white, very hard, conchoidal.

2795 to 2800 (5.00)

100% Dolomite

light - medium brown, buff, cream, off white, micro crystalline to fine crystalline, trace coarse crystalline, massive, occasional sub sucrosic text, abundant evidence of recrystallization, veining with occasional coarse white dolo-rhombic aggregates, hard to firm, brittle, cemented with dolosparite, platy to sub angular, in part friable, trace fine disseminated pyrite, abundant gray green shale laminae, trace bitumen staining, poor intercrystalline porosity, no shows.

2800 to 2805 (5.00)

100% Dolomite

light - medium brown, buff, cream, off white, micro crystalline to fine crystalline, trace coarse crystalline, massive, occasional sub sucrosic text, abundant evidence of recrystallization, veining with minor coarse white dolo-rhombic aggregates, hard to firm, brittle, cemented with dolosparite, platy to sub angular, in part friable, trace bitumen staining, abundant dark gray shale laminae, poor intercrystalline porosity, no shows.

2805 to 2810 (5.00)

100% Dolomite

light - dark brown, buff, cream, off white, micro crystalline to fine crystalline, frequent coarse crystalline, massive, occasional sub sucrosic text, abundant evidence of recrystallization, veining with frequent coarse white dolo-rhombic aggregates, hard to firm, brittle, cemented with dolosparite, platy to sub angular, in part friable, trace bitumen staining, poor intercrystalline porosity, no shows.

Formation: Berry Head TVD: 2811.92m MD: 2812m 144m

2810 to 2815 (5.00)

90% Dolomite

light brown buff, off white, micro crystalline - fine crystalline, massive, trace sucrosic text, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, occasional friable, argillaceous, trace bitumen staining, poor intercrystalline, porosity, no shows.

5% Chert

light brown, pale white, very hard, conchoidal.

5% Shale

dark gray brown, gray green, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

2815 to 2820 (5.00)

75% Dolomite

off white, buff, white, micro crystalline - fine crystalline, massive, common sucrosic texture, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, occasional friable, argillaceous, frequent relic texture of original limestone, trace bitumen staining, poor intercrystalline, porosity, no shows.

15% Chert

light brown, pale white, very hard, conchoidal, trace fine disseminated pyrite.

10% Shale

dark gray brown, gray green, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

2820 to 2825 (5.00)

70% Dolomite

off white, buff, white, micro crystalline - fine crystalline, occasional coarse crystalline, massive, common sucrosic texture, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, occasional friable, argillaceous, frequent relic texture of original limestone, trace bitumen staining, poor intercrystalline, porosity, no shows.

20% Chert

light brown, pale white, light - dark gray, very hard, conchoidal, trace fine disseminated pyrite.

10% Shale

dark gray brown, gray green, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

2825 to 2830 (5.00)

85% Dolomite

off white, buff, white, micro crystalline - fine crystalline, trace coarse crystalline, massive, trace sucrosic texture, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, minor friable, abundant white chalky, argillaceous, trace bitumen staining, poor intercrystalline, porosity, no shows. (Abundant white rock flour due to slow ROP: Poor sample quality)

10% Shale

dark gray brown, gray green, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

5% Chert

light brown, pale white, light - dark gray, very hard, conchoidal, trace fine disseminated pyrite.

2830 to 2835 (5.00)

90% Dolomite

off white, buff, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, trace sucrosic texture, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, minor friable, abundant white chalky, argillaceous, trace bitumen staining, poor intercrystalline, porosity, no shows. (Abundant white rock flour due to slow ROP: Poor sample quality)

8% Shale

dark gray brown, gray green, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

2% Chert

light brown, pale white, light - dark gray, very hard, conchoidal, trace fine disseminated pyrite.

2835 to 2840 (5.00)

90% Dolomite

white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, frequent sucrosic texture, fractures with occasional coarse white dolo- rhombic aggregates, hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, minor friable, abundant white chalky, argillaceous, trace bitumen staining, poor intercrystalline, porosity, no shows.

10% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

2840 to 2850 (10.00)

90% Dolomite

white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, frequent sucrosic texture, fractures with occasional coarse white dolo- rhombic aggregates, hard to firm, in part very friable, frequent silica & dolosparite cemented, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace bitumen staining, poor to fair intercrystalline, porosity, no shows.

10% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

2850 to 2855 (5.00)

90% Dolomite

white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, abundant sucrosic texture, frequent fractures with coarse white dolo- rhombic aggregates, hard to firm, in part very friable, frequent dolosparite cemented, common siliceous, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace fine disseminated pyrite, trace bitumen staining, poor to fair intercrystalline, porosity, no shows. (POOH to change MWD Tools & VertiTrak)

10% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

2855 to 2860 (5.00)

95% Dolomite

white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, frequent fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent dolosparite cemented, common siliceous, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace bitumen staining, poor to fair intercrystalline, porosity, no shows.

5% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, non calcareous,

2860 to 2870 (10.00)

95% Dolomite

white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, frequent fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent dolosparite cemented, common siliceous, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace bitumen staining & light brown chert, poor to fair intercrystalline, porosity, no shows.

5% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, non calcareous,

2870 to 2875 (5.00)

98% Dolomite

light - dark brown, white, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, occasional fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent dolosparite cemented, common siliceous, in part brittle, platy to blocky, abundant white chalky, common argillaceous, trace bitumen staining & light brown chert, poor intercrystalline, porosity, no shows.

2% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, non calcareous,

2875 to 2880 (5.00)

100% Dolomite

light - dark brown, white, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, common fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent cemented with dolosparite, common siliceous, in part brittle, platy to blocky, abundant white chalky, common argillaceous, trace bitumen staining & light brown chert, poor intercrystalline, porosity, no shows.

2880 to 2885 (5.00)

95% Dolomite

light - dark brown, white, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, trace fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent cemented with dolosparite, common siliceous, in part brittle, platy to blocky, abundant white chalky, frequent argillaceous, trace bitumen staining, poor intercrystalline, porosity, no shows.

5% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, non calcareous.

2885 to 2890 (5.00)

93% Dolomite

light - dark brown, white, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, trace sucrosic texture, hard to firm, in part friable, frequent cemented with dolosparite, common siliceous, in part brittle, platy to blocky, abundant white chalky, very argillaceous, abundant carbonaceous matter, trace bitumen staining, poor intercrystalline, porosity, no shows.

5% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, slightly siliceous, non calcareous.

2% Chert

light brown, pale white, light - dark gray, very hard, conchoidal.

2890 to 2895 (5.00)

90% Dolomite

mottled light - dark brown, white, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, trace sucrosic texture, hard to firm, in part friable, frequent cemented with dolosparite, common siliceous, in part brittle, platy to blocky, trace white chalky, very argillaceous, common carbonaceous matter, trace bitumen staining, frequent white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

5% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, slightly siliceous, non calcareous.

5% Chert

light brown, pale white, light - dark gray, very hard, conchoidal.

2895 to 2900 (5.00)

97% Dolomite

mottled light - medium brown, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, trace sucrosic texture, hard to firm, in part friable, abundant cemented with dolosparite, common siliceous, in part brittle, platy to blocky, very argillaceous, common carbonaceous matter, trace bitumen staining, fractures filled with frequent white dolo rhombic aggregates, occasional fine disseminated pyrite, poor intercrystalline, porosity, no shows.

3% Chert

light - dark brown, pale white, light - dark gray, very hard, conchoidal.

2900 to 2905 (5.00)

94% Dolomite

mottled light - dark brown, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, trace sucrosic texture, hard to firm, in part friable, abundant cemented with dolosparite, common siliceous, in part brittle, platy to blocky, very argillaceous, common carbonaceous matter, trace bitumen staining, common fractures filled with white dolo rhombic aggregates, occasional fine disseminated pyrite, poor intercrystalline, porosity, no shows.

5% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, slightly siliceous, non calcareous.

1% Chert

light - dark brown, pale white, light - dark gray, very hard, conchoidal.

2905 to 2910 (5.00)

89% Dolomite

buff, off white, mottled light - medium brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, hard to firm, in part friable, abundant cemented with dolosparite & silica, in part brittle, platy to blocky, very argillaceous, common carbonaceous matter, trace bitumen staining, common fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

10% Shale

dark gray brown, subfissile to blocky, elongate, hard to firm, silty, slightly siliceous, non calcareous.

1% Chert

light - dark brown, pale white, light - dark gray, very hard, conchoidal.

2910 to 2915 (5.00)

75% Dolomite

mottled light - dark brown, buff, off white, micro crystalline - fine crystalline, occasional coarse crystalline, massive, hard to firm, in part friable, abundant cemented with dolosparite & silica, in part brittle, platy to blocky, very argillaceous, common carbonaceous matter, trace bitumen staining, frequent fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

15% Shale

dark gray brown, black, subfissile to blocky, elongate, hard to firm, silty, frequent siliceous, non calcareous.

10% Chert

light - dark brown, pale white, light - dark gray, very hard, conchoidal.

2915 to 2920 (5.00)

80% Dolomite

mottled light - medium brown, buff, off white, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, very siliceous, in part brittle, platy to blocky, very argillaceous, trace bitumen staining, occasional fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

15% Shale

dark gray brown, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

5% Chert

light - dark brown, pale white, light - dark gray, very hard, conchoidal.

2920 to 2925 (5.00)

80% Dolomite

mottled light - medium brown, buff, off white, micro crystalline - fine crystalline, frequent coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, very siliceous, in part brittle, platy to blocky, very argillaceous, trace bitumen staining, occasional fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

10% Shale

dark gray brown, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

10% Chert

light - dark brown, pale white, light - dark gray, very hard, conchoidal.

2925 to 2930 (5.00)

80% Dolomite

mottled light - medium brown, buff, off white, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, very siliceous, in part brittle, platy to blocky, very argillaceous, trace bitumen staining, minor fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

15% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

5% Chert

light - dark brown, pale white, light - dark gray, very hard, conchoidal.

2930 to 2940 (10.00)

90% Dolomite

buff, off white, micro crystalline - fine crystalline, massive, hard to firm, slightly sucrosic, occasional cemented with dolosparite, siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, minor fractures filled with white dolo rhombic aggregates, trace chert, poor intercrystalline, porosity, no shows.

10% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

2940 to 2950 (10.00)

95% Dolomite

buff, off white, light to medium brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, hard to firm, slightly sucrosic, occasional cemented with dolosparite, siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, minor fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

5% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

Formation: Petit Jardin TVD: 2955.92m MD: 2956m 174m

2950 to 2960 (10.00)

85% Dolomite

buff, off white, light to dark brown, micro crystalline - fine crystalline, frequent coarse crystalline, massive, hard to firm, slightly sucrosic, frequent cemented with dolosparite, very siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, minor fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

15% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

2960 to 2970 (10.00)

90% Dolomite

light to medium brown, buff, off white, trace dark brown, micro crystalline - fine crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, occasional fractures filled with white dolo rhombic aggregates, fine disseminated pyrite, poor intercrystalline, porosity, no shows.

10% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

2970 to 2975 (5.00)

85% Dolomite

light to medium brown, buff, off white, trace dark brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, frequent fractures filled with white dolo rhombic aggregates, common carbonaceous matter, trace light brown limestone, poor intercrystalline, porosity, no shows.

15% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, trace dark brown chert.

2975 to 2980 (5.00)

85% Dolomite

light to dark brown, buff, off white, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, quartzitic, brittle, platy to blocky, argillaceous, in part friable, frequent fractures filled with white dolo rhombic aggregates, common carbonaceous matter, occasional disseminated + nodular pyrite, poor intercrystalline, porosity, no shows.

15% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, micro micaceous.

2980 to 2985 (5.00)

90% Dolomite

light to dark brown, buff, off white, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, frequent fractures filled with white dolo rhombic aggregates, common carbonaceous matter, occasional disseminated pyrite, poor intercrystalline, porosity, no shows.

10% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

2985 to 2989 (4.00)

95% Dolomite

buff, off white, white, light to dark brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, in part friable, occasional fractures filled with white dolo rhombic aggregates, common carbonaceous matter, occasional disseminated pyrite, poor intercrystalline, porosity, no shows.

5% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

2989 to 2995 (6.00)

90% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, in part friable, frequent fractures filled with white dolo rhombic aggregates, frequent disseminated pyrite, trace dark brown limestone, poor intercrystalline, porosity, no shows. (platy dolomite up to 3x2cm)

10% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

2995 to 3000 (5.00)

88% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, in part friable, frequent fractures filled with white dolo rhombic aggregates, frequent disseminated + nodular, pyrite, trace dark brown limestone, poor intercrystalline, porosity, no shows.

10% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

2% Chert

pale white, light gray, light brown, very hard, fine disseminated pyrite, conchoidal.

3000 to 3005 (5.00)

90% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, abundant fractures filled with pyrite & dolosparite, trace dark brown limestone, poor intercrystalline, porosity, no shows.

8% Shale

dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

2% Chert

pale white, light gray, very hard, fine disseminated pyrite, conchoidal.

3005 to 3010 (5.00)

90% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, abundant fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

9% Shale

dark gray, black, gray green, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

1% Chert

pale white, light gray, very hard, fine disseminated pyrite, conchoidal.

3010 to 3015 (5.00)

89% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly friable & argillaceous, frequent fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

10% Shale

dark gray, black, gray green, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

1% Chert

pale white, light gray, very hard, fine disseminated pyrite, conchoidal.

3015 to 3020 (5.00)

79% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly friable & argillaceous laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

20% Shale

dark gray, black, gray green, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

1% Chert

pale white, light gray, very hard, fine disseminated pyrite, conchoidal.

3020 to 3025 (5.00)

85% Dolomite

light to dark brown, buff, off white, micro crystalline - fine crystalline, occasional coarse crystalline, massive, common sucrosic, very hard to firm, abundant cemented with dolosparite, & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

15% Shale

dark gray, black, gray green, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

3025 to 3035 (10.00)

80% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

20% Shale

dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

3035 to 3040 (5.00)

75% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, minor fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

25% Shale

dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

3040 to 3045 (5.00)

75% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, minor fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

24% Shale

dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

1% Chert

pale white, light gray, very hard, fine disseminated pyrite, conchoidal.

3045 to 3050 (5.00)

80% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

20% Shale

dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

3050 to 3055 (5.00)

90% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, frequent coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, slightly sucrosic, frequent argillaceous & shale

laminae, abundant fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.(20% Dolomite spallings 2x1cm)

10% Shale

dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

3055 to 3060 (5.00)

79% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, frequent coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, slightly sucrosic, abundant argillaceous & shale laminae, frequent fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

20% Shale

dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

1% Chert

pale white, light gray, very hard, fine disseminated pyrite, conchoidal.

3060 to 3065 (5.00)

75% Dolomite

buff, off white, white, mottled gray, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, minor friable, abundant argillaceous & shale laminae, frequent fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

15% Shale

dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

10% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, occasional fractures in filled with white calcite + disseminated pyrite, no visible porosity, no shows.

3065 to 3070 (5.00)

80% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly sucrosic, minor friable, occasional argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, trace off white oolites, poor intercrystalline, porosity, no shows.

10% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, occasional fractures in filled with white calcite, occasional dark argillaceous bands, trace light brown oolites, no visible porosity, no shows.

10% Shale

dark gray, green gray, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

3070 to 3075 (5.00)

70% Dolomite

buff, off white, white, light - dark brown, micro crystalline - fine crystalline, common coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly sucrosic, minor friable, occasional argillaceous & shale laminae, frequent fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

15% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

15% Shale

green gray, medium to dark gray, platy to blocky, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

3075 to 3080 (5.00)

80% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional argillaceous & shale laminae, frequent fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

15% Shale

dark gray, green gray, platy to blocky, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

5% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

3080 to 3085 (5.00)

85% Dolomite

buff, off white, white, light - dark brown, micro crystalline - fine crystalline, common coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional sucrosic, in part friable, occasional argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, poor to fair intercrystalline, porosity, no shows.

10% Shale

dark gray, green gray, platy to blocky, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

5% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

3085 to 3090 (5.00)

85% Dolomite

buff, off white, white, light - dark brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, abundant argillaceous & shale

laminae, occasional fractures filled with pyrite & dolosparite, trace pale white chert, poor to fair intercrystalline, porosity, no shows.

10% Shale

dark gray, green gray, platy to blocky, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

5% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

3090 to 3095 (5.00)

75% Dolomite

buff, off white, white, light - dark brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, abundant argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, trace pale white chert, poor to fair intercrystalline, porosity, no shows.

15% Shale

green gray, light gray, platy to blocky, slightly subfissile, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, abundant fine disseminated pyrite, micro micaceous, grading siltstone.

10% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

3095 to 3100 (5.00)

70% Dolomite

buff, off white, white, light - dark brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, frequent argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, poor to fair intercrystalline, porosity, no shows.

20% Shale

medium - dark gray, black, green gray, platy to blocky, slightly subfissile, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, occasional fine disseminated pyrite, micro micaceous, grading siltstone.

10% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

3100 to 3105 (5.00)

60% Dolomite

buff, off white, white, light - dark brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, frequent argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, poor to fair intercrystalline, porosity, no shows.

30% Shale

medium - dark gray, black, green gray, platy to blocky, slightly subfissile, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, occasional fine disseminated pyrite, micro micaceous, grading siltstone.

10% Limestone

medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

3105 to 3115 (10.00)

50% Dolomite

buff, off white, white, light - medium brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, frequent argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, trace glauconite, poor to fair intercrystalline, porosity, no shows.

30% Shale

medium - dark gray, black, green gray, platy to blocky, slightly subfissile, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, occasional fine disseminated pyrite, micro micaceous, grading siltstone

20% Limestone

medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

3115 to 3120 (5.00)

60% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, frequent argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, trace glauconite, poor to fair intercrystalline, porosity, no shows.

25% Shale

medium - dark gray, black, green gray, platy to blocky, slightly subfissile, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, occasional fine disseminated pyrite, earthy, micro micaceous, grading siltstone

15% Limestone

medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, frequent fractures in filled with white calcite, common dark argillaceous bands, no visible porosity, no shows.

3120 to 3125 (5.00)

55% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, massive, very hard to firm, strongly cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to blocky, common sucrosic, in part friable, frequent argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, poor to fair intercrystalline, porosity, no shows.

25% Shale

medium - dark gray, black, green gray, platy to blocky, slightly subfissile, very hard to firm, brittle, frequent silt bands with fine disseminated pyrite, siliceous, slightly calcareous, earthy, grading siltstone

20% Limestone

medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, occasional fractures in filled with white calcite, common dark argillaceous bands, no visible porosity, no shows.

3125 to 3130 (5.00)

75% Dolomite

buff, off white, white, light brown, micro crystalline - fine crystalline, massive, very hard to firm, strongly cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to blocky, trace sucrosic, common argillaceous & shale laminae, abundant fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

15% Shale

medium - dark gray, black, platy to blocky, slightly subfissile, very hard to firm, brittle, frequent silt bands with fine disseminated pyrite, siliceous, slightly calcareous, earthy, grading siltstone

10% Limestone

medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, abundant fractures in filled with white calcite, common dark argillaceous bands, no visible porosity, no shows. (Hole sloughing problems: RIH to ream & clean hole for Wireline Logging.)

(Unable to ream because of extreme sloughing and flaking conditions in the hole from 3030m to 3130m. Decision to Final Total Depth the Finnegan#1 well at 3130mMD.)

Final Total Depth (FTD) = 3130mMD

Formation Tops

Kelly Bushing Elevation:

6.25

Ground Elevation:

118.75

**** All Depths measured from Kelly Bushing Elevation ****

<i>Formation Member</i>	<i>Prognosis (TVD)</i>	<i>Sample Top (MD)</i>	<i>Sample Top (TVD)</i>	<i>Log Top (MD)</i>	<i>Log Top (TVD)</i>	<i>Subsea</i>	<i>Thickness</i>
<i>Allochthon A</i>	25.60	25.60	25.60	25.60	25.60	99.40	359.40
<i>Allochthon B</i>	408.00	385.00	385.00	385.00	385.00	-260.00	620.00
<i>Allochthon C</i>	805.00	1005.00	1005.00	1002.00	1002.00	-877.00	598.00
<i>Allochthon D</i>		1603.00	1602.98	1600.00	1599.98	-1474.9	365.00
<i>Goose(American) Tickle</i>	1949.00	1968.00	1967.96	1973.00	1972.96	-1847.9	283.00
<i>Table Point</i>	2286.00	2251.00	2250.94	2248.00	2247.94	-2122.9	196.00
<i>Aguathuna</i>	2438.00	2447.00	2446.93	2445.00	2444.93	-2319.9	48.00
<i>Catoche</i>	2527.00	2495.00	2494.93	2493.00	2492.93	-2367.9	125.00
<i>Boat Harbour</i>	2647.00	2620.00	2619.93	2623.00	2622.93	-2497.9	124.00
<i>Watts Bight</i>	2709.00	2744.00	2743.93	2743.00	2742.93	-2617.9	68.00
<i>Berry Head</i>	2814.00	2812.00	2811.92	2815.00	2814.92	-2689.9	144.00
<i>Petit Jardin</i>	2948.00	2956.00	2955.92	2961.00	2960.92	-2835.9	174.00
<i>Final Total Depth</i>		3130.00	3129.92			-3004.9	

FTD = 3130mMD.

Formation Evaluations for Finnegan - 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 570m MD to 3030.0m 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: Allochthon A **Series:** Early
Period: Ordovician
Stage: Arenigian
Boundary Type:
Fault Type: overthrust

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	25.6	25.6	99.40	359.4
Log Top	25.6	25.6	99.40	

Evaluation

The Allochthon A is mainly massive limestone with thin interbedded shale.

The Limestone is buff, light - medium brown, off white, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

The Shale is dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

Conclusion

The Allochthon A sequence has no reservoir development and very little hydrocarbon potential.

Formation: Allochthon B **Series:** Early
Period: Ordovician
Stage: Tremadocian
Boundary Type:
Fault Type: overthrust

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	385	385	-260.00	620
Log Top	385	385	-260.00	

Evaluation

The Allochthon B sequence from 385m to 529m is mainly thick shale beds with thin interbedded limestone and dolomite. From 529m to 1005m the sequence is mainly massive shale with interbedded limestone and minor dolomite.

The Shale from 385m to 529m is 50% green gray, 50% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + quartz stringers, frequent slickenside, occasional off white very hard indurated sandstone grains.

The Limestone from 385m to 529m is light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

The Dolomite from 385m to 529m is buff, off white, micro crystalline - crystalline, massive, very hard, silica cemented, brittle, no visible porosity, no shows.

The Shale from 529m to 1005m is dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

The Limestone from 529m to 1005m is light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Conclusion

The Allochthon B sequence has some reservoir development in fractured limestones with Gas values at the following intervals: 987m - 990m: TG =38.83%: C1=34.6%, C2=2.01%, C3=1.91%, C4=0.21%, C5=0.07%.

Formation: Allochthon C **Series:** Middle
Boundary Type: **Period:** Ordovician
Fault Type: overthrust **Stage:** Llanvirnian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	1005	1005	-880.00	598
Log Top	1002	1002	-877.00	

Evaluation

The Allochthon C sequence is mainly massive Sandstone and Shale beds with thin interbeds of sandstone and shale.

The Sandstone is medium - light gray, mottled gray, off white, clear, glassy, salt & pepper, fine to medium grained, occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, frequent grains of feldspar, lithic fragments & serpentine, frequent to abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

The Shale is dark to medium gray, brown gray, firm to very hard, in part brittle, blocky to platy, elongated, siliceous + weak calcareous matrix, occasional cross cutting very thin calcite veins, micro micaceous, occasional very thin carbonaceous stringers, frequent fine disseminated pyrite, grading siltstone, trace dark brown limestone.

Conclusion

The Allochthon C sequence has some reservoir development in fractured sandstone with Gas values at the following intervals: 1146m - 1149m: TG =64.37%: C1=60.87%, C2=1.73%, C3=1.66%, C4=0.23%, C5=0.01%. 1526m - 1527m: TG =16.10%: C1=15.39%, C2=0.33%, C3=0.31%, C4=trace, C5=trace.

Formation: Allochthon D **Series:** Early
Boundary Type: **Period:** Ordovician
Fault Type: overthrust **Stage:** Tremadocian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	1603	1602.98	-1477.98	365
Log Top	1600	1599.98	-1474.98	

Evaluation

The Allochthon D sequence is mainly massive shale beds with thin interbedded sandstones.

The Shale is medium to dark gray, gray brown, firm to hard, blocky to platy, siliceous, weak dolomitic + calcareous matrix, silty, common micro micaceous, occasional carbonaceous streaks, abundant calcite filled fractures, occasional slickenside, grading to siltstone.

The Sandstone is medium to dark gray, mottled gray, off white, very fine to fine grained, occasional medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly clear & frosted quartz, consolidated with silica, dolomite & calcareous cement, firm to very hard, indurated, silty in part, rare gray chert, minor grains of feldspar & mica, abundant lithic fragments, trace serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

Conclusion

The Allochthon D sequence has no reservoir development and very little hydrocarbon potential.

Formation:	Goose (American) Tickle	Series: Middle
Boundary Type:	nonconformable	Period: Ordovician
Fault Type:	overthrust	Stage: Llandeilan

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	1968	1967.96	-1842.96	283
Log Top	1973	1972.96	-1847.96	

Evaluation

The Goose (American) Tickle is mainly massive shale with thin interbedded sandstone.

The Shale is dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, occasional micro micaceous & carbonaceous specks, common fine disseminated pyrite, frequent white calcite filled fractures, minor slickensided, grading to siltstone.

The Sandstone is medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

Conclusion

The Goose (American) Tickle has poor reservoir development with limited hydrocarbon potential and Gas values at the following intervals: 1967.5m - 1968.5m: TG =15.27%: C1=14.73%, C2=0.29%, C3=0.24%, C4=trace, C5=trace. 2058.0m - 2059.5m: TG =20.07%: C1=19.45%, C2=0.31%, C3=0.30%, C4=trace, C5=trace.

Formation: Table Point **Series:** Middle
Period: Ordovician
Stage: Llanvirnian
Boundary Type: unconformable

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2251	2250.94	-2125.94	196
Log Top	2248	2247.94	-2122.94	

Evaluation

The Table Point is mainly a massive limestone with very minor thin interbedded shale.

The Limestone is buff, off white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites, frequent carbonaceous stringers, slightly argillaceous, common fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

The Shale is dark gray, black, firm to hard, in part brittle, platy, silty, slightly calcareous, frequent carbonaceous specks.

Conclusion

The Table Point has no reservoir development and no hydrocarbon potential.

Formation: Aguathuna **Series:** Early
Period: Ordovician
Stage: Arenigian
Boundary Type: erosional surface

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2447	2446.93	-2321.93	48
Log Top	2445	2444.93	-2319.93	

Evaluation

The Aguathuna is mainly massive dolomite with thin interbedded limestone and shale.

The Dolomite is light brown, off white, buff, micro crystalline to fine crystalline, massive, granular, trace recrystallization, occasional sucrosic, firm to hard, in part brittle, blocky to platy, frequent argillaceous, trace bitumen staining, poor intercrystalline porosity, no shows.

The Limestone is white, buff, off white, light brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks & bitumen staining, no visible porosity, no shows.

The Shale is light gray, gray green, firm to hard, blocky to platy, waxy, non calcareous.

Conclusion

The Aguathuna in the Finnegan well has no reservoir development and no hydrocarbon potential. Total Gas peak at 2477m is 1.5%. However, throughout the formation Total Gas is less than 0.12%.

Formation: Catoche **Series:** Early
Boundary Type: unconformable **Period:** Ordovician
Stage: Arenigian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2495	2494.93	-2369.93	125
Log Top	2493	2492.93	-2367.93	

Evaluation

The Catoche is mainly massive dolomite with thin interbeds of limestone and shale.

The Dolomite is mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite + trace nodular pyrite, occasional veining with clear dolo- rhombic crystals, common carbonaceous matter, occasional bitumen staining, poor intercrystalline porosity, no shows.

The Limestone is white, gray brown, cream, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, chalky, trace light brown chert, no visible porosity, no shows.

The Shale is light to medium gray, firm to hard, blocky to platy, non calcareous, trace light brown chert.

Conclusion

The Catoche in the Finnegan well has no reservoir development and no hydrocarbon potential. Total Gas throughout the formation is less than 0.12%.

Formation: Boat Harbour **Series:** Early
Boundary Type: disconformable **Period:** Ordovician
Stage: Tremadocian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2620	2619.93	-2494.93	124
Log Top	2623	2622.93	-2497.93	

Evaluation

The Boat Harbour is mainly massive limestone with thin interbedded dolomite.

The Limestone is medium to light brown, cream, off white, dark brown mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, minor carbonaceous & shale laminae, no visible porosity, no shows.

The Dolomite is dark brown, firm to hard, in part brittle, fine crystalline, platy, slightly sucrosic, poor intercrystalline porosity, no shows.

Conclusion

The Boat Harbour in the Finnegan well has no reservoir development and no hydrocarbon potential. Total Gas throughout the formation is less than 0.12%.

Formation: Watts Bight
Boundary Type: conformable

Series: Early
Period: Ordovician
Stage: Tremadocian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2744	2743.93	-2618.93	68
Log Top	2743	2742.93	-2617.93	

Evaluation

The Watts Bight is mainly massive dolomite with minor thin limestone interbeds.

The Dolomite is white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, abundant sucrosic texture, frequent fractures with coarse white dolo- rhombic aggregates, hard to firm, in part very friable, frequent dolosparite cemented, common siliceous, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace fine disseminated pyrite, trace bitumen staining, poor to fair intercrystalline, porosity, no shows.

The Limestone is white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.

Conclusion

The Watts Bight in the Finnegan well has very limited reservoir development and minimum hydrocarbon potential. Total Gas throughout the formation is from 0.06%. to 0.25%.

Formation: Berry Head
Boundary Type: conformable

Series: Late
Period: Cambrian

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2812	2811.92	-2686.92	144
Log Top	2815	2814.92	-2689.92	

Evaluation

The Berry Head is mainly massive dolomite with minor interbeds of chert and shale.

The Dolomite is mottled light - dark brown, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, trace sucrosic texture, hard to firm, in part friable, abundant cemented with dolosparite, common siliceous, in part brittle, platy to blocky, very argillaceous, common carbonaceous matter, trace bitumen staining, common fractures filled with white dolo rhombic aggregates, occasional fine disseminated pyrite, poor intercrystalline, porosity, no shows.

The Chert is light - dark brown, pale white, light - dark gray, very hard, conchoidal.

The Shale is dark gray brown, black, subfissile to blocky, elongate, hard to firm, silty, frequent siliceous, non calcareous.

Conclusion

The Berry Head has no reservoir development and no hydrocarbon potential. Total Gas peak at 2911m is 0.25%. However, throughout the formation Total Gas is less than 0.12%.

Formation: Petit Jardin **Series:** Middle
Period: Cambrian
Boundary Type: unconformable

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2956	2955.92	-2830.92	174
Log Top	2961	2960.92	-2835.92	

Evaluation

The Petit Jardin is mainly dolomite with thin interbeds of shale with minor limestone and chert.

The Dolomite is buff, off white, white, light - dark brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, abundant argillaceous & shale laminae, frequent fractures filled with pyrite & dolosparite, trace pale white chert, poor to fair intercrystalline, porosity, no shows.

The Shale is medium - dark gray, black, green gray, platy to blocky, slightly subfissile, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, occasional fine disseminated pyrite, micro micaceous, grading siltstone.

The Limestone is medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

The Chert is pale white, light gray, very hard, fine disseminated pyrite, conchoidal.

Conclusion

The Petit Jardin has no reservoir development and no hydrocarbon potential.

This formation was very faulted and highly fractured. From 3030m to 3130m extreme flaking and sloughing developed in the well. Unable to drill ahead. Finnegan #1 Final Total Depth was 3130mMD.

Total Depth 3130mMD

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-17	Report No. 54
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Current Information

Time 06:00	Depth(MD) 2575.0m	Depth(TVD) 2574.8	Progress 76m	Formation Catoche	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 69.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2536.0	0.2 ⁰	131.6 ⁰	2535.93	10.30	0.20	1.62	-10.18
2550.0	0.2 ⁰	42.8 ⁰	2549.93	10.27	0.60	1.63	-10.14

Summary of Previous 24 Hours

Drill ahead

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1225kg/ m ³ @ 2525m	Viscosity 62	Fluid Loss to hole 5.9cm ³ /30min	PV/YP 23.0/7.5	Chlorides 3000mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)244@2276.0m Next CSG(size/Depth)178@3400m
20	216	Smith MSi81	2285	70.5	4.14	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2497-2556	3.40	10.40	1.22	Dol+Ls
2556-2575	3.80	7.6	1.90	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2497-2556	0.017	0.02	tr	tr	tr	tr	Bkgd Gas=0.03
2556-2575	0.070	0.07	tr	tr	tr	tr	

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647			
Watts Bight	2709	2709			
Berry Head	2778	2778			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-17	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2447m	Aguathuna Formation
2495m	Catoche Formation
2495-2500 5m	<p>Dolomite: 90% mottled light to dark brown, buff, off white, micro crystalline to crystalline, massive, granular, frequent recrystallization, common sucrosic, firm to hard, in part brittle, blocky to platy, frequent argillaceous, trace bitumen staining, occasional fine disseminated pyrite, occasional stylolites in filled with bitumen, poor intercrystalline porosity, no shows.</p> <p>Limestone: 9% white, off white, buff, light brown, dark gray, mudstone to wackestone, massive, firm to hard, occasional stylolites, argillaceous, no visible porosity, no shows.</p> <p>Shale: 1% dark to medium gray, firm to hard, blocky to platy, non calcareous.</p>
2500-2540 40m	<p>Dolomite: 95% buff, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.</p> <p>Limestone: 4% white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.</p> <p>Shale: 1% light to medium gray, firm to hard, blocky to platy, non calcareous, trace light brown chert.</p>
2540-2560 20m	<p>Dolomite: 85% white, buff, cream, mottled light to medium brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, trace sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.</p> <p>Limestone: 13% white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.</p> <p>Shale: 2% light to medium gray, firm to hard, blocky to platy, non calcareous, trace light brown chert.</p>

<p>2560-2565 5m</p>	<p>Dolomite: 90% mottled gray brown, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, trace sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.</p> <p>Limestone: 10% white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows</p>
<p>2565-2570 5m</p>	<p>Dolomite: 90% mottled medium to dark brown, off white, micro crystalline to crystalline, frequent coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, frequent veining with clear rhombic crystals, trace bitumen staining, occasional carbonaceous material, poor intercrystalline porosity, no shows.</p> <p>Limestone: 10% white, gray brown, cream, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-18	Report No. 55
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Current Information

Time 06:00	Depth(MD) 2683.0m	Depth(TVD) 2682.8	Progress 108m	Formation Boat Harbour	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 70.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2645.0	0.3 ⁰	338.7 ⁰	2644.93	10.34	1.14	1.52	-10.23
2660.0	0.5 ⁰	332.9.8 ⁰	2659.93	10.40	0.41	1.62	-10.27

Summary of Previous 24 Hours

Drill ahead

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1220kg/ m ³ @ 2608m	Viscosity 63	Fluid Loss to hole 5.7cm ³ /30min	PV/YP 27.0/7.5	Chlorides 3100mg/L
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Bit and Casing Data

Bit No. 20	Size 216	Type Smith MSi81	Depth in 2285	Hours 91.6	ROP(M/HR) 4.34	Last CSG(size/Depth) 244@2276.0m Next CSG(size/Depth) 178@3400m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2575-2682	5.30	13.30	1.90	Dol+Ls
2630-2632	3.70	8.1	2.53	Ls+Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks		
2575-2682	0.09	0.09					Bkgd Gas=0.09		
Peak 2630-2632	0.51	0.50	0.01						
Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2709	2709			
Berry Head	2778	2778			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-18	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2495m	Catoche Formation
2570-2595 25m	<p>Dolomite: 90% mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional veining with clear dolo- rhombic crystals, common carbonaceous matter, occasional bitumen staining, poor intercrystalline porosity, no shows.</p> <p>Limestone: 10% off white, cream, light brown, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, very chalky, no visible porosity, no shows.</p>
2595-2620 25m	<p>Dolomite: 75% mottled medium to dark brown, off white, cream, micro crystalline to crystalline, trace coarse crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional fractures in filled with clear & white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows</p> <p>Limestone: 25% off white, buff, light brown, mudstone, microcrystalline to cryptocrystalline, firm to hard, in part friable, very white chalky, stylolitic with bitumen staining, occasional calcite veining, no visible porosity, no shows.</p>
2620m	Boat Harbour Formation
2620-2645 25m	<p>Limestone: 80% off white, buff, mottled light brown, mudstone, microcrystalline to cryptocrystalline, firm to hard, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, no visible porosity, no shows.</p> <p>Dolomite: 20% mottled medium to dark brown, off white, cream, micro crystalline to crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, blocky to platy, occasional fractures in filled with white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows</p>

2645-2675 30m	Limestone: 100% medium to light brown, cream, off white, dark brown mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, minor carbonaceous shale laminae, no visible porosity, no shows.

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-19	Report No. 56
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Current Information

Time 06:00	Depth(MD) 2789.0m	Depth(TVD) 2788.8	Progress 106m	Formation Watts Bight	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 71.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2741.0	0.7 ⁰	58.4 ⁰	2740.93	9.92	0.57	1.91	-9.74
2755.0	0.4 ⁰	64.5 ⁰	2754.93	9.82	0.65	1.98	-9.62

Summary of Previous 24 Hours

Drill ahead

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1210kg/ m ³ @ 2722m	Viscosity 64	Fluid Loss to hole 6.3cm ³ /30min	PV/YP 24.0/7.5	Chlorides 3100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
20	216	Smith MSi81	2285	111.4	4.53	244@2276.0m	178@3400m

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2682-2789	5.69	13.10	2.16	Dol+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2682-2789	0.07	0.07	tr				Bkgd Gas=0.07
Swab Gas 2748.8	0.41						

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2709	2709	2744	2743.8	
Berry Head	2778	2778			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-19	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2620m	Boat Harbour Formation
2675-2695 20m	Limestone: 100% off white, cream, medium to light brown, dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, frequent dark argillaceous bands, occasional fine disseminated pyrite, occasional dolomitic, no visible porosity, no shows.
2695-2740 45m	Limestone: 97% off white, cream, light brown to dark brown, mudstone to wackestone, microcrystalline to cryptocrystalline, massive, soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, occasional stylolitic with bitumen staining, common calcite veining, frequent dark argillaceous bands, no visible porosity, no shows. Dolomite: 3% dark brown, firm to very hard, in part brittle, fine crystalline, platy, slightly sucrosic, argillaceous, poor intercrystalline porosity, no shows.
2744m	Watts Bight Formation
2740-2750 10m	Dolomite: 50% light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, occasional sub sucrosic text, frequent evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregate, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows. Limestone: 50% white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.
2750-2770 20m	Dolomite: 85% light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, minor sub sucrosic text, frequent evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows. Limestone: 15% white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part

	friable, platy, stylolitic, no visible porosity, no shows.
2770-2780 10m	Dolomite: 100% light - dark brown, buff, cream, off white, micro crystalline to abundant coarse crystalline, massive, minor sub sucrosic text, abundant evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, trace bitumen staining, common dark gray shale laminae, poor intercrystalline porosity, no shows.

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-20	Report No. 57
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Current Information

Time 06:00	Depth(MD) 2855.0m	Depth(TVD) 2854.8	Progress 66m	Formation Berry Head	Status Drilling ahead
Rig Stoneham 11	Spud Date 2010-09-09	Days from Spud 72.0	RT 6.25	Ground Elevation 118.75	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2797.0	0.4 ⁰	136.2 ⁰	2796.93	9.62	0.58	1.96	-9.42
2810.0	0.4 ⁰	116.4 ⁰	2809.93	9.54	0.32	1.90	-9.35

Summary of Previous 24 Hours

Drill ahead to 2855m. Condition mud & POOH. Pickup kelly & work tight hole from 2744m to 2731m, pulling 140kDaN. Continue circulating hole testing VertiTrak. Continue POOH from 2736m to 956m, conducting regular flow checks.

Operations Forecast (next 24 Hours)

Continue to POOH, layout MWD tools, VertiTrak & break bit. Make up new tools & bit. RIH & drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1210kg/ m ³ @ 2827m	Viscosity 65	Fluid Loss to hole 6.2cm ³ /30min	PV/YP 25.0/8.0	Chlorides 3100mg/L
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Bit and Casing Data

Bit No. 20	Size 216	Type Smith MSi81	Depth in 2285	Hours 125.9	ROP(M/HR) 4.53	Last CSG(size/Depth)244@2276.0m Next CSG(size/Depth)178@3250m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2789-2812	5.90	10.90	2.16	Dol
2812-2855	4.64	9.43	2.46	Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2789-2812	0.10	0.10	tr				Bkgd Gas=0.07
2812-2855	0.02	0.02					

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2709	2709	2744	2743.8	
Berry Head	2778	2778	2812	2811.8	
Petit Jardin	2948	2948			
Marche Point	3189	3189			
Hawke Bay	3246	3246			
Final Total Depth	3250	3250			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-20	Wellsite Geologist Roland Strickland
Interval & Thickness	Description	
2744	Watts Bight Formation	
2780-2795 15m	<p>Dolomite: 98% light - medium brown, buff, cream, off white, micro crystalline to fine crystalline, massive, minor sub sucrosic text, abundant evidence of recrystallization, fractures with occasional coarse white dolo-rhombic aggregates, hard to firm, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, trace bitumen staining, frequent gray green shale laminae, poor intercrystalline porosity, no shows.</p> <p>Chert: 2% light brown, pale white, very hard, conchoidal.</p>	
2795-2810 15m	<p>Dolomite: 100% light - medium brown, buff, cream, off white, micro crystalline to fine crystalline, trace coarse crystalline, massive, occasional sub sucrosic text, abundant evidence of recrystallization, fractures with occasional coarse white dolo-rhombic aggregates, hard to firm, brittle, cemented with dolosparite, platy to sub angular, in part friable, trace fine disseminated pyrite, abundant gray green shale laminae, trace bitumen staining, poor intercrystalline porosity, no shows.</p>	
2813m	Berry Head Formation	
2810-2825 15m	<p>Dolomite: 79% off white, buff, white, micro crystalline - fine crystalline, occasional coarse crystalline, massive, common sucrosic texture, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, occasional friable, argillaceous, frequent relic texture of original limestone, trace bitumen staining, poor intercrystalline, porosity, no shows.</p> <p>Chert: 13% light brown, pale white, light - dark gray, very hard, conchoidal, trace fine disseminated pyrite.</p> <p>Shale: 8% dark gray brown, gray green, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,</p>	
2825-2835 10m	<p>Dolomite: 87% off white, buff, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, trace sucrosic texture, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, minor friable, abundant white chalky,</p>	

	<p>argillaceous, trace bitumen staining, poor intercrystalline, porosity, no shows. (Abundant white rock flour: Poor sample quality)</p> <p>Shale: 10% dark gray brown, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous</p> <p>Chert: 3% light brown, pale white, light - dark gray, very hard, conchoidal, trace fine disseminated pyrite.</p>
<p>2835-2855 20m</p>	<p>Dolomite: 90% white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, frequent sucrosic texture, frequent fractures with coarse white dolo- rhombic aggregates, hard to firm, in part very friable, dolosparite cemented, common siliceous, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace fine disseminated pyrite & bitumen staining, poor to fair intercrystalline, porosity, no shows.</p> <p>Shale: 10% dark gray brown, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous.</p> <p>(POOH to change MWD Tools, VertiTrak. & new Bit.)</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Ge	Date 2010-11-21	Report No. 58
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Current Information

Time 06:00	Depth(MD) 2887.0m	Depth(TVD) 2886.8	Progress 32m	Formation Berry Head	Status Drilling ahead
Rig Stoneham 11	Spud Date 2010-09-09	Days from Spud 73.0	RT 6.25	Ground Elevation 118.75	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2852.0	0.2 ⁰	4.7 ⁰	2851.93	9.34	0.56	1.90	-9.15
2865.0	0.2 ⁰	204.9 ⁰	2864.93	9.35	0.91	1.90	-9.15

Summary of Previous 24 Hours

Pickup VertiTrak, GR tool and make up new bit. RIH & shallow test VertiTrak @ 430m. Slip & cut drill line. Continue to RIH & log GR from 2840m to 2855m. Drill ahead in 216mm hole.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.

Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1210kg/ m ³ @ 2855m	Viscosity 79	Fluid Loss to hole 5.8cm ³ /30min	PV/YP 24.0/8.5	Chlorides 3100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth) 244@2276.0m Next CSG(size/Depth)178@3250m
21	216	Reed M713-A3D	2855	7.2	4.16	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2855-2865	4.40	7.20	0.80	Dol
2865-2885	4.50	8.11	1.30	Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2855-2865	0.01	0.01	tr				Bkgd Gas=0.03
2865-2885	0.05	0.05					

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD
0.04	nil	20	2855						

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	
Allochthon B	405	405		385	384.79
Surface Csg Point	570	570		570	570
Allochthon C (Fault)	805	805		1005	1004.8
Allochthon D	1227	1227		1603	1602.8
Allochthon E	1642	1642			
Goose Tickle	1949	1949		1968	1967.8
Table Point	2286	2286		2252	2251.7
Intermediate Csg Point	2290	2289		2276	2275.8
Aguathuna	2438	2438		2447	2446.8
Catoche	2491	2491		2495	2494.8
Boat Harbour	2647	2647		2620	2619.8
Watts Bight	2745	2745		2744	2743.8
Berry Head	2814	2814		2812	2811.8
Petit Jardin	2948	2948			
Big Cove Shale	2991	2991			
Marche Point	3189	3189			
Hawke Bay	3231	3231			
Final Total Depth	3250	3250			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-21	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2813	Berry Head Formation
2855-2870 15m	<p>Dolomite: 95% white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, frequent fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent dolosparite cemented, common siliceous, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace bitumen staining & light brown chert, poor to fair intercrystalline, porosity, no shows.</p> <p>Shale: 5% dark gray brown, subfissile to blocky, elongate, hard to firm, silty, non calcareous,</p>
2870-2880 10m	<p>Dolomite: 98% light - dark brown, white, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, common fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent cemented with dolosparite, common siliceous, in part brittle, platy to blocky, abundant white chalky, common argillaceous, trace bitumen staining & light brown chert, poor intercrystalline, porosity, no shows.</p> <p>Shale: 2% dark gray brown, subfissile to blocky, elongate, hard to firm, silty, non calcareous,</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-22	Report No. 59
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Current Information

Time 06:00	Depth(MD) 2972.0m	Depth(TVD) 2971.8	Progress 85m	Formation Berry Head	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 74.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2934.0	0.1 ⁰	46.7 ⁰	2933.93	9.41	0.40	1.85	-9.22
2947.0	0.4 ⁰	322.0 ⁰	2946.93	9.42	0.93	1.89	-9.24

Summary of Previous 24 Hours

Drill ahead in 216mm hole.

Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1210kg/ m ³ @ 2925m	Viscosity 66	Fluid Loss to hole 5.9cm ³ /30min	PV/YP 24.0/8.0	Chlorides 3100mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth) 244@2276.0m Next CSG(size/Depth)178@3250m
21	216	Reed M713-A3D	2855	29.3	3.99	

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2885-2927	4.70	9.10	1.34	Dol
2927-2970	3.68	7.30	1.90	Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2885-2927	0.047	0.046	tr				Bkgd Gas=0.02
2927-2970	0.01	0.01					

Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2745	2745	2744	2743.8	
Berry Head	2814	2814	2812	2811.8	
Petit Jardin	2948	2948			
Big Cove Shale	2991	2991			
Marche Point	3189	3189			
Hawke Bay	3231	3231			
Final Total Depth	3250	3250			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-22	Wellsite Geologist Roland Strickland
Interval & Thickness	Description	
2813	Berry Head Formation	
2880-2895 15m	<p>Dolomite: 93% mottled light - dark brown, white, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, trace sucrosic texture, hard to firm, in part friable, frequent cemented with dolosparite, common siliceous, in part brittle, platy to blocky, trace white chalky, very argillaceous, common carbonaceous matter, trace bitumen staining, frequent white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.</p> <p>Shale: 5% dark gray brown, subfissile to blocky, elongate, hard to firm, silty, slightly siliceous, non calcareous.</p> <p>Chert: 2% light brown, pale white, light - dark gray, very hard, conchoidal.</p>	
2895-2910 15m	<p>Dolomite: 90% buff, off white, mottled light - medium brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, hard to firm, in part friable, abundant cemented with dolosparite & silica, in part brittle, platy to blocky, very argillaceous, common carbonaceous matter, trace bitumen staining, common fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.</p> <p>Shale: 7% dark gray brown, subfissile to blocky, elongate, hard to firm, silty, slightly siliceous, non calcareous.</p> <p>Chert: 3% light brown, pale white, light - dark gray, very hard, conchoidal.</p>	
2910-2930 20m	<p>Dolomite: 77% mottled light - medium brown, buff, off white, micro crystalline - fine crystalline, frequent coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, very siliceous, in part brittle, platy to blocky, very argillaceous, trace bitumen staining, occasional fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.</p> <p>Shale: 15% dark gray brown, subfissile to blocky, elongate, hard to firm, silty, slightly siliceous, non calcareous.</p> <p>Chert: 8% light brown, pale white, light - dark gray, very hard, conchoidal.</p>	
2930-2950 20m	<p>Dolomite: 95% buff, off white, light to medium brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, hard to firm, slightly sucrosic, occasional cemented with dolosparite, siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, minor fractures filled with white dolo rhombic aggregates,</p>	

	<p>poor intercrystalline, porosity, no shows.</p> <p>Shale: 5% dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.</p>
2950-2960 10m	<p>Dolomite: 85% buff, off white, light to dark brown, micro crystalline - fine crystalline, frequent coarse crystalline, massive, hard to firm, slightly sucrosic, frequent cemented with dolosparite, very siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, minor fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.</p> <p>Shale: 15% dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.</p>
2960-2970 10m	<p>Dolomite: 90% light to medium brown, buff, off white, trace dark brown, micro crystalline - fine crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, occasional fractures filled with white dolo rhombic aggregates, fine disseminated pyrite, poor intercrystalline, porosity, no shows.</p> <p>Shale: 10% dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.</p> <p>NOTE: During last 24 hrs. two(2) test gas runs to verify chromatograph is working properly.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-23	Report No. 60
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Current Information

Time 06:00	Depth(MD) 2989.0m	Depth(TVD) 2988.8	Progress 17m	Formation Berry Head	Status RIH at 2980m
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 75.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
2947.0	0.4 ⁰	322.0 ⁰	2946.93	9.42	0.93	1.89	-9.24
2961.0	0.3 ⁰	46.0 ⁰	2960.92	9.45	1.02	1.95	-9.25

Summary of Previous 24 Hours

Drill ahead in 216mm hole to 2989m. Circulate bottoms up. POOH with regular flow checks. Break dog sub & bit. Make up new bit & change out make up tong torque gauge. RIH.
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Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1210kg/ m ³ @ 2989m	Viscosity 66	Fluid Loss to hole 6.4cm ³ /30min	PV/YP 24.0/9.0	Chlorides 3200mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
21	216	Reed M713-A3D	2855	36.4	3.68	244@2276.0m	178@3250m
22	216	Smith MSI816	2989				

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2970-2989	2.57	5.48	0.40	Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks		
2970-2989	trace	trace	nil	nil			Bkgd Gas=nil		
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure	Depth
								xxxxkg/m ³	xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2745	2745	2744	2743.8	
Berry Head	2814	2814	2812	2811.8	
Petit Jardin	2948	2948			
Big Cove Shale	2991	2991			
Marche Point	3189	3189			
Hawke Bay	3231	3231			
Final Total Depth	3250	3250			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-23	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2813	Berry Head Formation
2970-2975 5m	<p>Dolomite: 85% light to medium brown, buff, off white, trace dark brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, frequent fractures filled with white dolo rhombic aggregates, common carbonaceous matter, trace light brown limestone, poor intercrystalline, porosity, no shows.</p> <p>Shale: 15% dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, trace dark brown chert.</p>
2975-2985 10m	<p>Dolomite: 88% light to dark brown, buff, off white, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, frequent fractures filled with white dolo rhombic aggregates, common carbonaceous matter, occasional disseminated pyrite, poor intercrystalline, porosity, no shows.</p> <p>Shale: 12% dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.</p>
2985-2989 4m	<p>Dolomite: 95% buff, off white, white, light to dark brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, in part friable, occasional fractures filled with white dolo rhombic aggregates, common carbonaceous matter, occasional disseminated pyrite, poor intercrystalline, porosity, no shows.</p> <p>Shale: 5% dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.</p> <p>POOH to change for new Bit.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-24	Report No. 61
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Current Information

Time 06:00	Depth(MD) 3059.0m	Depth(TVD) 3058.8	Progress 70m	Formation Petit Jardin	Status Drilling ahead
Rig Stoneham 11	Spud Date 2010-09-09	Days from Spud 76.0	RT 6.25	Ground Elevation 118.75	

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m	N/S m	E/W m
3015.0	0.3 ⁰	182.9 ⁰	3014.92	9.34	1.04	1.95	-9.14
3030.0	0.3 ⁰	141.1 ⁰	3029.92	9.31	0.43	1.88	-9.11

Summary of Previous 24 Hours

Drill ahead in 216mm. Circulate & work tight hole from 3015m to 3045m. Continue to drill ahead to 3059m.
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Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1210kg/ m ³ @ 3013m	Viscosity 63	Fluid Loss to hole 6.5cm ³ /30min	PV/YP 23.0/8.0	Chlorides 3250mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
22	216	Smith MSI816	2989	19.3	3.62	244@2276.0m	178@3250m

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
2989-3045	4.00	7.40	0.80	Dol
3045-3059	3.40	6.40	1.80	Dol

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
2989-3045	0.01	0.01	tr	nil			Bkgd Gas=0.01
3045-3059	0.03	0.03	tr				

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

<u>Formations</u>	<u>Prognosed</u>			<u>Actual</u>	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2745	2745	2744	2743.8	
Berry Head	2814	2814	2812	2811.8	
Petit Jardin	2948	2948	2956	2955.8	
Big Cove Shale	2991	2991			
Marche Point	3189	3189			
Hawke Bay	3231	3231			
Final Total Depth	3250	3250			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-24	Wellsite Geologist Roland Strickland
Interval & Thickness	Description	
2956	Petit Jardin Formation	
2989-3015 26m	<p>Dolomite: 88% buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly friable & argillaceous, frequent fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows</p> <p>Shale: 10% dark gray, black, gray green, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.</p> <p>Chert: 2% pale white, light gray, very hard, fine disseminated pyrite, conchoidal.</p>	
3015-3020 5m	<p>Dolomite: 79% buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, argillaceous laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.</p> <p>Shale: 20% dark gray, black, gray green, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.</p> <p>Chert: 1% pale white, light gray, very hard, fine disseminated pyrite, conchoidal.</p>	
3020-3025 5m	<p>Dolomite: 85% light to dark brown, buff, off white, micro crystalline - fine crystalline, occasional coarse crystalline, massive, common sucrosic, very hard to firm, abundant cemented with dolosparite, & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.</p> <p>Shale: 15% dark gray, black, gray green, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.</p>	

<p>3025-3045 20m</p>	<p>Dolomite: 77% buff, off white, white, light brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, minor fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows. Shale: 23% dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.</p>
<p>3045-3055 10m</p>	<p>Dolomite: 85% buff, off white, white, light brown, micro crystalline - fine crystalline, frequent coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, slightly sucrosic, frequent argillaceous & shale laminae, abundant fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.(20% Dolomite spallings 2cmx1cm) Shale: 15% dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Ge	Date 2010-11-25	Report No. 62
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Current Information

Time 06:00	Depth(MD) 3121.0m	Depth(TVD) 3120.8	Progress 61m	Formation Petit Jardin	Status Drilling ahead
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 77.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
3084.0	0.4 ⁰	355.0 ⁰	3083.92	9.54	0.90		2.17	-9.29
3098.0	0.5 ⁰	64.9 ⁰	3097.92	9.51	1.12		2.24	-9.24

Summary of Previous 24 Hours

Drill ahead in 216mm to 3121m. Communication problems with VertiTrak & MWD tool.
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Operations Forecast (next 24 Hours)

Drill ahead as per well plan trajectory.
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Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1210kg/ m ³ @ 3087m	Viscosity 63	Fluid Loss to hole 6.4cm ³ /30min	PV/YP 24.0/9.0	Chlorides 3250mg/L
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Bit and Casing Data

Bit No.	Size	Type	Depth in	Hours	ROP(M/HR)	Last CSG(size/Depth)	Next CSG(size/Depth)
22	216	Smith MSI816	2989	38.4	3.43	244@2276.0m	178@3250m

Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
3059-3112	3.93	8.70	0.60	Dol+Sh+Ls
3112-3120	2.50	5.20	1.55	Dol+Sh+Ls

Hydrocarbon Data

Interval(m)	TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks
3059-3112	0.02	0.02	tr	nil			Bkgd Gas=0.01
3112-3120	0.01	0.01	nil				

Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2745	2745	2744	2743.8	
Berry Head	2814	2814	2812	2811.8	
Petit Jardin	2948	2948	2956	2955.8	
Petit Jardin Big Cove Member	2991	2991	3029	3028.8	
Marche Point	3189	3189			
Hawke Bay	3231	3231			
Final Total Depth	3250	3250			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-25	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2956	Petit Jardin Formation
3055-3095 40m	<p>Dolomite: 80% buff, off white, white, light - dark brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, minor argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, trace pale white chert, poor to fair intercrystalline, porosity, no shows.</p> <p>Shale: 12% green gray, light gray, platy to blocky, slightly subfissile, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, abundant fine disseminated pyrite, micro micaceous, grading siltstone.</p> <p>Limestone: 8% medium to dark brown, buff, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, frequent fractures in filled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.</p>
3095-3120 25m	<p>Dolomite: 60% buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, common sucrosic, in part friable, frequent argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, trace glauconite, poor to fair intercrystalline, porosity, no shows.</p> <p>Shale: 25% medium - dark gray, black, green gray, platy to blocky, slightly subfissile, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, earthy, occasional fine disseminated pyrite, micro micaceous, grading siltstone</p> <p>Limestone: 15% medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, frequent fractures in filled with white calcite, common dark argillaceous bands, no visible porosity, no shows.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-26	Report No. 63
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Current Information

Time 06:00	Depth(MD) 3130.0m	Depth(TVD) 3129.8	Progress 9m	Formation Petit Jardin	Status Make up Bit & BHA
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 78.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
3084.0	0.4 ⁰	355.0 ⁰	3083.92	9.54	0.90		2.17	-9.29
3098.0	0.5 ⁰	64.9 ⁰	3097.92	9.51	1.12		2.24	-9.24
3130.0	0.5 ⁰	64.9 ⁰	3129.92	9.29	0.0		2.36	-8.99

Summary of Previous 24 Hours

Drill ahead in 216mm to 3130m. Pump 2 sweeps & circulate hole clean. Wiper trip to 2796m, pumping out 25 singles. Maximum pull @ 29DaN from 3061m to 3070m. Circulate & pump sweep. Abundant flakings & thin sloughings coming over the shakers. Hole cleaned up & able to POOH from 2796m without the pumps & kelly. Continue to POOH, layout directional tools & break bit.

Operations Forecast (next 24 Hours)

Change BHA to rotary mode & RIH to ream & clean hole for Wireline Logging.

Drilling Fluid Properties

Formation Leak of Test 2185 kg/m3 @ 2276mTVD	Fluid Type KLA Shield	Density 1210kg/ m3 @ 3130m	Viscosity 61	Fluid Loss to hole 6.6cm ³ /30min	PV/YP 24.0/9.0	Chlorides 3300mg/L
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Bit and Casing Data

Bit No. 22	Size 216	Type Smith MSI816	Depth in 2989	Hours 41.0	ROP(M/HR) 3.43	Last CSG(size/Depth) 244@2276.0m Next CSG(size/Depth) 178@3250m
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Rate of Penetration (Meters/Hour)

Interval(m) 3120-3130	Average ROP m/hr 2.80	Max ROP 8.30	Min ROP 1.10	Remarks Dol+Sh+Ls
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Hydrocarbon Data

Interval(m) 3120-3130	TG % 0.01	%C1 0.01	%C2 tr	%C3 nil	%C4	%C5	HYDC Remarks Bkgd Gas=0.01
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Trip Gas %	Bkgrd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd 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)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2745	2745	2744	2743.8	
Berry Head	2814	2814	2812	2811.8	
Petit Jardin	2948	2948	2956	2955.8	
Petit Jardin Big Cove Member	2991	2991	3029	3028.8	
Marche Point	3189	3189			
Hawke Bay	3231	3231			
Final Total Depth	3250	3250			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-26	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2956	Petit Jardin Formation
3120-3130 10m	<p>Dolomite: 65% buff, off white, white, light brown, micro crystalline - fine crystalline, massive, very hard to firm, strongly cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to blocky, trace sucrosic, common argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.</p> <p>Shale: 20% medium - dark gray, black, platy to blocky, slightly subfissile, very hard to firm, brittle, frequent silt bands with fine disseminated pyrite, siliceous, slightly calcareous, earthy, grading siltstone</p> <p>Limestone: 15% medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, occasional fractures in filled with white calcite, common dark argillaceous bands, no visible porosity, no shows.</p> <p>NOTE: Hole sloughing problems. Ream & clean hole for Wireline Logging.</p>

Daily Geological Report

Well Name & Location Nalcor et al Finnegan # 1	Geologist Roland Strickland P.Geo	Date 2010-11-27	Report No. 64
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Current Information

Time 06:00	Depth(MD) 3130.0m	Depth(TVD) 3129.8	Progress 0m	Formation Petit Jardin	Status Pumping sweep
Rig Stoneham 11		Spud Date 2010-09-09	Days from Spud 79.0	RT 6.25	Ground Elevation 118.75

Surveys

Depth	INCL	Corr. AZ	TVDm	V Sect	Dogleg deg/30m		N/S m	E/W m
3084.0	0.4 ⁰	355.0 ⁰	3083.92	9.54	0.90		2.17	-9.29
3098.0	0.5 ⁰	64.9 ⁰	3097.92	9.51	1.12		2.24	-9.24
3130.0	0.5 ⁰	64.9 ⁰	3129.92	9.29	0.0		2.36	-8.99

Summary of Previous 24 Hours

Make up bit & rotary BHA. RIH picking up singles from 2809m to 2919m. Raise mud weight to 1250 kg/m³ & viscosity to 88. Circulate bottoms up. Continue to RIH to 3030m circulating bottoms up every 100m. Ream & clean hole from 3030m to 3042m. The hole is tight, abundant sloughing & high table torque up to 17,700ft-lbs+. Mix & pump sweeps to clean hole.

Operations Forecast (next 24 Hours)

POOH from 3015m & start Wireline Logging program.

Drilling Fluid Properties

Formation Leak of Test 2185 kg/m ³ @ 2276mTVD	Fluid Type KLA Shield	Density 1250kg/ m ³ @ 3130m	Viscosity 88	Fluid Loss to hole 6.0cm ³ /30min	PV/YP 25.0/11.5	Chlorides 3300mg/L
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Bit and Casing Data

Bit No. 22	Size 216	Type Smith MSI816	Depth in 2989	Hours 41.0	ROP(M/HR) 3.43	Last CSG(size/Depth) 244@2276.0m Next CSG(size/Depth) 178@3250m
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Rate of Penetration (Meters/Hour)

Interval(m)	Average ROP m/hr	Max ROP	Min ROP	Remarks
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Hydrocarbon Data

Interval(m)		TG %	%C1	%C2	%C3	%C4	%C5	HYDC Remarks Bkgd Gas=0.01	
Trip Gas %	Bkgd Gas%	Pumps off (hrs)	Depth m	Conn Gas	Bkgd Gas	Pumps off (hr)	Depth	Est. Pore Pressure xxxxkg/m ³	Depth xxxxTVD

Formation Tops

Formations	Prognosed			Actual	
	Measured(m)	TVD(m)		Measured(m)	TVD(m)
	Allochthon A	0		0	25.6
Allochthon B	405	405	385	384.79	
Surface Csg Point	570	570	570	570	
Allochthon C (Fault)	805	805	1005	1004.8	
Allochthon D	1227	1227	1603	1602.8	
Allochthon E	1642	1642			
Goose Tickle	1949	1949	1968	1967.8	
Table Point	2286	2286	2252	2251.7	
Intermediate Csg Point	2290	2289	2276	2275.8	
Aguathuna	2438	2438	2447	2446.8	
Catoche	2491	2491	2495	2494.8	
Boat Harbour	2647	2647	2620	2619.8	
Watts Bight	2745	2745	2744	2743.8	
Berry Head	2814	2814	2812	2811.8	
Petit Jardin	2948	2948	2956	2955.8	
Petit Jardin Big Cove Member	2991	2991	3029	3028.8	
Marche Point	3189	3189			
Hawke Bay	3231	3231			
Final Total Depth	3250	3250			
Remarks					

Sample Descriptions

Well Name and Location Nalcor et al Finnegan # 1	Date 2010-11-26	Wellsite Geologist Roland Strickland
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Interval & Thickness	Description
2956	Petit Jardin Formation
3120-3130 10m	<p>Dolomite: 65% buff, off white, white, light brown, micro crystalline - fine crystalline, massive, very hard to firm, strongly cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to blocky, trace sucrosic, common argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.</p> <p>Shale: 20% medium - dark gray, black, platy to blocky, slightly subfissile, very hard to firm, brittle, frequent silt bands with fine disseminated pyrite, siliceous, slightly calcareous, earthy, grading siltstone</p> <p>Limestone: 15% medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, occasional fractures in filled with white calcite, common dark argillaceous bands, no visible porosity, no shows.</p> <p>NOTE: Hole sloughing problems. Ream & clean hole for Wireline Logging.</p>

.006 milidarcy .006 2690 2710
 Whole Rock Weight
 38%, K-Feldspar: 5% K-Feldspar, Plagioclase 12%; Calcite 6%; Dolomite: 3%;
 Pyrite 1%, Total Clay 35%

Quartz:

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
13	1,568.04	SHALE
100	1,568.02	black to dark gray, dull, massive, firm, grading locally to siltstone.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
14	1,533.04	SHALE
100	1,533.02	dark gray, massive, firm, remnant silicified appear, occasional lenses & parting of very fine grained sandstone to siltstone. No shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
15	1,525.58	SANDSTONE
100	1,525.56	Described by Core Laboratories: Sandstone to very fine to fine grained, calcareous. Permeability Porosity Bulk density Grain Density .008 miladarcy .006 2650 2670 Whole Rock weight % Quartz: 62%; K-Feldspar 7%; Plagioclase 12%; Calcite 10%; Dolomite 1%, Total Clay 8%

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
16	1,486.59	Limestone
100	1,486.57	Described by Core Laboratories Permeability Porosity Bulk Density Grain Density .007 miladarcy .006 2650 2660 Whole Rock Weight % Quartz: 68%, K-Feldspar 5%; Plagioclase 9%; Calcite 12%, Total Clay 6%

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
17	1,345.00	SANDSTONE
100	1,344.98	gray white, fine grained to trace medium grained, quartz argillite grains in claystone quartzose matrix, trace disseminated mafic & glauc, sub rounded, moderately to poorly sorted, siliceous clay cement, poor intergranular porosity, no show & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
18	1,308.99	SANDSTONE
100	1,308.97	clear glassy to gray white, quartzose, fine to medium grained, moderately sorted, weakly calcareous cement, fair intergranular porosity, moderately firm, trace disseminated glauc & siderite to potassium feldspar, trace carbonaceous flakes. no

shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
19	1,242.45	SANDSTONE
100	1,242.43	gray white, fine grained, well sorted, sub rounded, moderately sorted, firm, clay to silica cement, poor intergranular porosity, no show & no fluorescence, predominant quartzose with common lithic grains in quartzose matrix. Trace calcite filled fractures. Note in the sample, very sharp contact with the shale.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
20	1,214.94	Siltstone
100	1,214.93	Sample was described by Core Laboratories: Permeability Porosity Bulk Density Grain Density .01 milidarcy .014 2680 2720 Whole Rock Weight % Quartz 36%; K-Feldspar 7%; Plagioclase 11%; Dolomite 3%; Pyrite 1%; Total Clay: 42%

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
21	1,179.02	SHALE
100	1,179.01	dark gray, micro micaceous, firm, occasional gray white fine crystalline calcite filled fractures, foilated in appear with foilation bands at 70 degrees to core axis.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
22	1,162.06	Siltstone
100	1,162.05	Described by Core Laboratories Permeability Porosity Bulk Density Grain Density .003 milidarcy .001 2710 kg/m3 2710 Whole Rock Weight % Quartz: 17%; K-Feldspar 2%; Plagioclase 5%, Calcite 39%; Dolomite 8%; Pyrite 1%, and Total Clay 28%

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
23	1,142.53	SHALE
100	1,142.52	black to dark gray, dull, sub fissile, moderately firm, massive, trace finely disseminated pyrite & trace crystalline calcite filled fracture <1mm. Note poor sample recovery!

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
24	1,120.04	SHALE
100	1,120.03	black to dark gray, micro micaceous, sub fissile, common carbonaceous content, moderate firm, trace finely disseminated pyrite & trace <1mm calcite filled fractures.

Core No.	Depth (MD)	Rock Type
25	1,073.05	SANDSTONE
100	1,073.05	Note the sample went to core laboratories, hence only lab description. Described by the lab as a sandstone, very fine grained to fine grained, calcareous. Permeability .011 milidacy Porosity 3% Bulk Density 2630 kg/m3 Grain Density 2710 kg/m3 Whole Rock Weight % Quartz: 53%, K-Feldspar 9%; Plagioclase 14%; Calcite 3%; Total Clay 21%

Core No.	Depth (MD)	Rock Type
26	995.52	SHALE
100	995.52	dark gray to locally green gray, dull to micro micaceous, massive with occasional black carbonaceous partings, trace disseminated pyrite & trace <1mm silty calcite filled fractures, note locally foliated in appear with foilation along the core axis.

Core No.	Depth (MD)	Rock Type
27	987.05	SHALE
100	987.05	dark gray, micro micaceous, fissile, moderately firm to platty & fissile along core axis, locally carbonaceous in content, trace finely disseminated pyrite & trace <1mm calcite filled fractures. Poor sample with abundant filter cake.

Core No.	Depth (MD)	Rock Type
28	973.03	SHALE
100	973.03	dark gray to green gray, dull, sub fissile, foilated in appear, with common alteration light & dark bands, at 45 degrees from the core axis, trace 1mm calcite fracture filling.

Core No.	Depth (MD)	Rock Type
29	848.03	SHALE
100	848.03	black to dark grey, dull, fissile, moderately firm to to somewhat fissile along core axis, light green white silty foliated laminae, locally exhibiting folding & over turning.

Core No.	Depth (MD)	Rock Type
30	794.00	Shale
100	794.00	dark gray to occasional green gray bands, dull, sub fissile, banded to laminae in appear, non calcareous, pyritic lenses up to 1cm in size, common later 2mm silty calcite laminae partings.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description

31	767.49	Shale
100	767.49	black to dark gray, dull, sub fissile to fissile, firm, non calcareous, breaks relatively easy along core axis, exhibits a moderate carbonaceous vitreous luster along core axis.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
32	2,062.50	No sample
100	2,062.45	No Pieces

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
33	2,005.03	SHALE
100	2,004.98	dark gray, micro micaceous, firm, massive to foilated in appear, with occasional siliceous bands at 40 degrees from core axis, no calcite fracture filling observed.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
34	1,133.95	SHALE
100	1,133.94	Left in bitumen rubble dark grey, dull, fissile, moderately firm, homogeneous with trace finely disseminated pyrite.

Date	Nov 28, 2010	Service Company	Baker Hughes
Run No.	2	Tool Type	Rotary Sidewall Coring Tool
Top Depth	2,602.47	Cores Requested	18
Base Depth	2,891.00	Cores Obtained	19
Geologist	Duncan X MacInnis	Cores Lost	0

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
1	2,891.00	Dolomite
100	2,890.92	brown gray, sucrosic in appear, very fine crystalline, massive, dense, occasional silty in texture, has a silicified wavy appear, obsered a 3mm clear glassy coarse crystalline dolomite fracture fill orientated along the core axis, porosities are tight, no shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
2	2,839.54	Dolomite
100	2,839.46	gray white with common white secondary crystalline dolomite filled fractures, the host dolomite is very fine crystalline, massive, tight with no shows, the secondary dolomite is coarse crystalline, white to occasional clear glassy, moderately firm, locally exhibiting vugular porosity of 2% to 5%, no shows & no fluorescence. This sample should be capable of having hydrocarbons.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
3	2,781.57	
100	2,781.50	

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
4	2,749.00	Dolomite
100	2,748.93	mottled gray, very fine crystalline to trace medium crystalline, moderately firm, dense with occasional < 1mm fracture filled crystalline dolostone, trace very fine silt content along fractures, trace finely disseminated fine crystalline clear glassy dolomite crystals, poor to locally fair intercrystalline porosity, no shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
5	2,696.01	Limestone
100	2,695.94	dark brown to gray brown, very fine to fine crystalline, firm, argillaceous, mudstone to wackestone, massive, firm, very poor intercrystalline porosity, no shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description

6	2,631.98	Limestone
100	2,631.91	dark grey to black, very fine crystalline, friable, argillaceous to shaly in content, occasional green gray silty remnant algal wisps, trace disseminated pyrite, very intercrystalline porosity, no shows & no fluorescence.
Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
7	2,602.43	Dolomite
100	2,602.36	white to light gray white, medium to coarse crystalline, firm, granular, appears to be re crystalline dolomite filling remnant voids, minor dark green gray dolomitic wackestone inclusions or wall rock within the white crystalline dolomite ??, very poor intercrystalline porosity, rare observed pin point porosity, no shows & no fluorescence.
Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
8	2,536.89	Dolomite
100	2,536.82	buff brown to mottled gray, cryptocrystalline to very fine crystalline, firm, common remnant algal silty partings, occasional silicified bands along the core axis, very poor intercrystalline porosity, no shows & no fluorescence.
Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
9	2,502.01	Dolomite
100	2,501.94	mottled dark gray to buff brown, very fine crystalline, firm, locally argillaceous in content, common secondary medium crystalline dolomite filled fractures, the fractures occasional exhibit a vugular porosity, the dolomite matrix is tight, with no shows & no fluorescence.
Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
10	2,469.00	Limestone to Dolomite
100	2,468.93	gm gray to mottled green gray, cryptocrystalline to very fine crystalline, firm, dense (difficult to break with hammer), moderately calcareous, grading to a dolomitic wackestone, very poor intercrystalline porosity, no shows & no fluorescence.
Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
11	2,466.01	Limestone
100	2,465.94	mottled gray, very fine crystalline, dense, brittle, remnant algal wisps that exhibit very fine silt laminae, locally dolomitic in content, very poor intercrystalline porosity, no shows & no fluorescence.
Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
12	2,462.99	Limestone
100	2,462.92	mottled gray, cryptocrystalline to very fine crystalline, massive, firm, somewhat argillaceous in content (wackestone), very poor intercrystalline porosity, no shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
13	2,385.01	Limestone
100	2,384.94	mottled brown gray, cryptocrystalline, massive, firm, very homogeneous, tight, no shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
14	2,330.00	Limestone
100	2,329.94	dark gray to buff gray, cryptocrystalline to very fine crystalline, firm, very argillaceous, very homogeneous in appear, some what brittle, massive, very poor intercrystalline porosity, no show & no fluorescence

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
15	2,993.01	Dolomite
100	2,992.93	mottled brown gray, cryptocrystalline to very fine crystalline, dense, massive, occasional wisps & laminae of silty partings (remnant algal partings??), very poor intercrystalline porosity, with no shows.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
16	2,978.00	Dolomite
100	2,977.92	mottled gray white, cryptocrystalline to very fine crystalline, massive, dense, silicified appear, with trace wavy bands of remnant silty algal bands, very poor intercrystalline porosity, no shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
17	2,966.49	Dolomite
100	2,966.41	mottled gray brown, sucrosic in appear, very fine to fine crystalline, massive, dense, occasional wisps & bands of remnant silty algal bands, trace pyritic laminae, occasional appear fine to medium crystalline secondary filled white dolomite, locally exhibiting vugular porosity of less than 1%, no shows & no fluorescence.

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description
18	2,908.01	Dolomite
100	2,907.93	mottled brown gray, very fine crystalline to fine crystalline, firm, trace very finely disseminated pyrite, occasional observed white medium crystalline secondary dolomite cutting across the matrix, very poor intercrystalline porosity, no shows & no fluorescence..

Core No.	Depth (MD)	Rock Type
% Recovery	Depth (TVD)	Description

19	2,602.47	Dolomite
100	2,602.40	white to locally gray white silty, stringers, medium to coarse crystalline, firm to very firm, appears under the microscope to be a recrystallized limestone, very poor inter crystalline porosity, with no shows & no fluorescence.



Well Information

Operator: Nalcor Energy - Oil and Gas Inc.

Well Name: Nalcor et al Finnegan - 1

Location: Parsons Pond

UWI: Finnegan - 1

Pool: Parsons Pond

Field: Western Newfoundland

Province / State: Newfoundland

Country: Canada

Total Depth

Measurement Type	MD	TVD
Drillers TD (Tally)	<u>3130 m</u>	<u>3129.92 m</u>
Drillers TD (Strap or SLM)	<u> m</u>	<u> m</u>
Loggers TD	<u>3016 m</u>	<u>3015.92 m</u>

Well Co - Ordinates

Longitude **Latitude** **Well Type:** Straight

Surface Co-Ordinates: W 63° 19' 55.76N 49° 55' 23.3" **NS:** N 5549336 m
EW: E 45629 m

Int. Casing Co-Ordinates: **NS:**
EW:

Bottom Hole Co-Ordinates: W 63° 19' 56.21N 49° 55' 23.47" **NS:** N 5549339 m
EW: E 45620 m

UTM Surface Co-Ordinates: **Northing:** **Easting:**

Elevations

Reference: _____

Ground: 118.75 m

Cut(-) / Fill(+): _____

K.B. to Ground: _____ m

Kelly Bushing: 125 m

Casing Flange: _____ m

Well Summary

Spud Date: Sep 9, 2010 @ 09:15hrs

TD Date: Nov 25, 2010 @ 09:09hrs

Rig Release Date: Dec 5, 2010 @ 23:55hrs

Contractor: Stoneham 11

Casing Summary

Type	Hole Size	Casing Size	Landed At
Conductor	644 mm	508 mm	25.6 m
Surface	444.5 mm	340 mm	570 m
Intermediate	311 mm	244.5 mm	2276 m

Drilling Fluid Summary

Fluid Type	From	To
KLA Shield	25 m	3130 m

Work Schedule

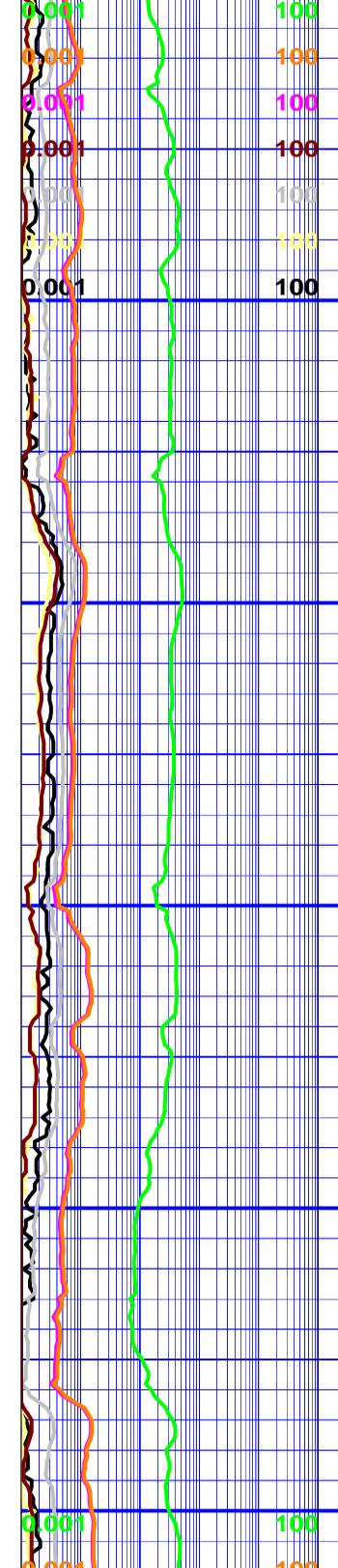
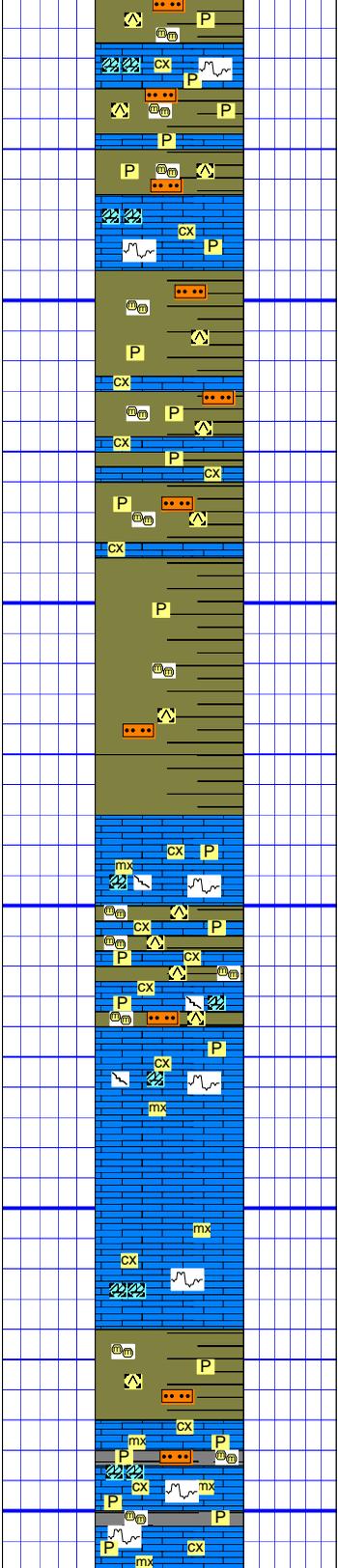
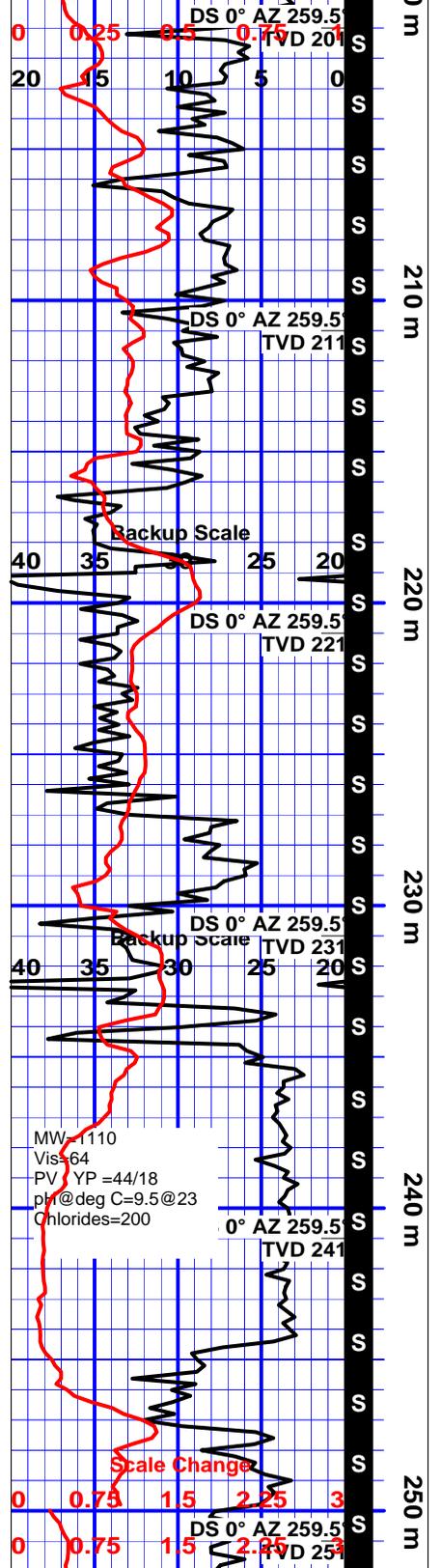
Contractor	Geologist	Log Interval	Dates Logged
Rolter Holdings Ltd.	R. Strickland	25 m - 1530 m	Sep 9, 2010 - Oct 10, 2010
East Rock Consulting	J. Hearn	1535 m - 1850 m	Oct 11, 2010 - Oct 17, 2010
Rolter Holdings Ltd.	R. Strickland	1850 m - 3130 m	Oct 18, 2010 - Nov 28, 2010

Remarks

Legend

	Chert light (Rock)		Fracture (Accessory)
	Chert varicolored (Rock)		Glauconite grains (Grain)
	Dolomite (Rock)		Lithographic (Texture)
	Limestone mud supported (Rock)		Lithic grain (Accessory)
	Shale black (Rock)		Mudstone (Texture)
	Shale dark gray (Rock)		Micromicaceous (Accessory)
	Shale red (Rock)		Microcrystalline (Texture)
	Shale green (Rock)		Pyritic (Accessory)
	Shale medium gray (Rock)		Sandy (Accessory)
	Sandstone (Rock)		Slickenside (Accessory)
	Limestone mud supported (Stringers)		Silty (Accessory)
	Shale red (Stringers)		Stylolitic (Accessory)
	Shale gray (Stringers)		Wackestone (Texture)
	Siltstone (Stringers)		Slide (Slides)
	Calcareous (Cement)		
	Dolomitic (Cement)		
	Siliceous (Cement)		
	Argillaceous (Matrix)		
	Sparry calcite (Matrix)		
X	Intercrystalline - interfragmental - intergranular (Porosity)		
	Chert light (Grain)		
	Feldspar (Grain)		
	Quartz (Grain)		
	Shale dark gray (Grain)		
	Argillaceous (Accessory)		
	Calcareous (Accessory)		
	Carbonaceous (Accessory)		
	Chalky (Texture)		
	Cryptocrystalline (Texture)		

* Abundance: Trace Occasional Common Abundant No Indication



Shale: green gray, dark - medium gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

Shale: green gray, dark - medium gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

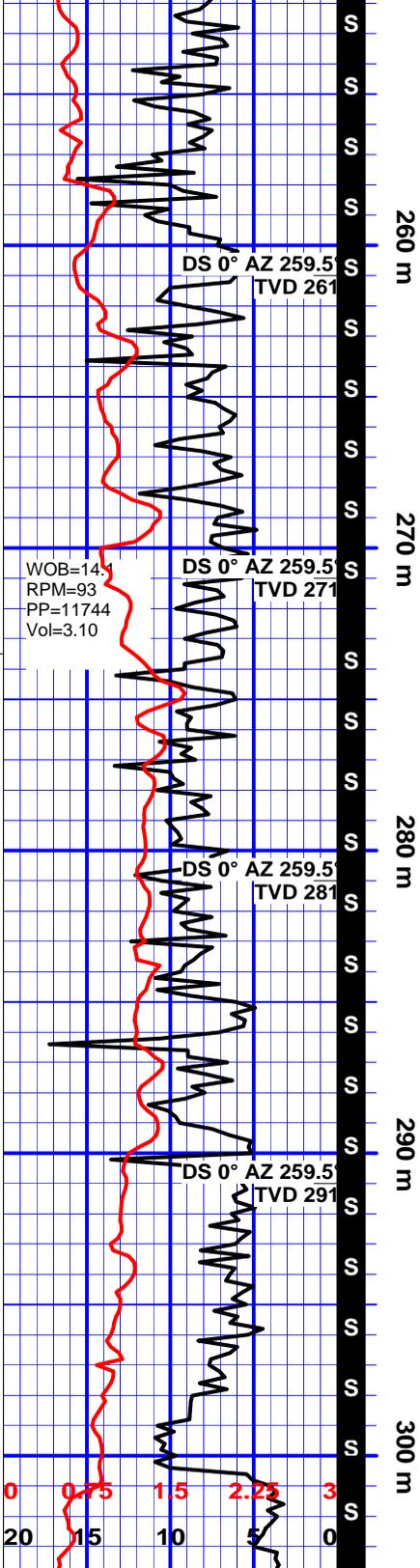
Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Limestone: off white, buff, cream, light brown, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, frequent nodular pyrite, trace bitumen staining, tight, no shows.

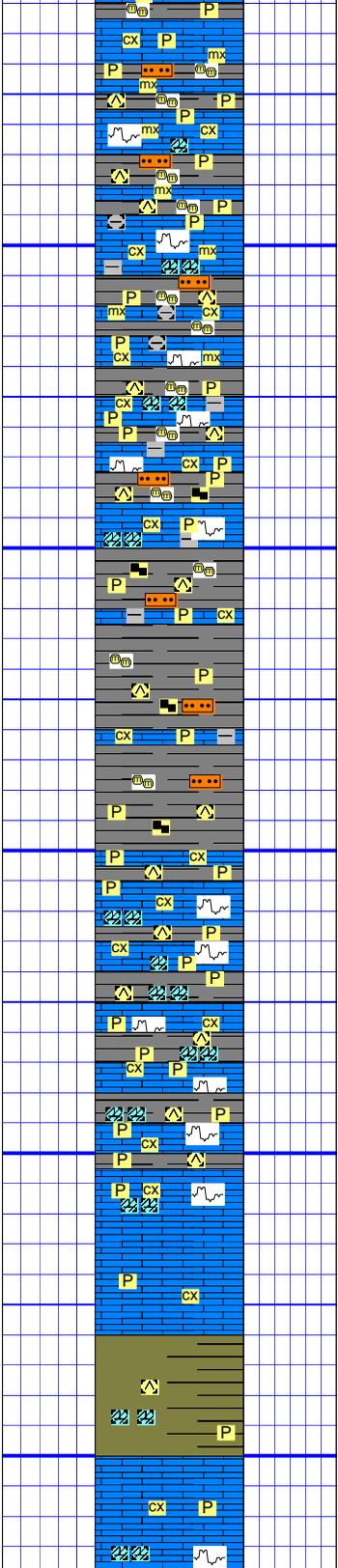
Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non

MW-1110
Vis=64
PV / YP =44/18
pH@deg C=9.5@23
Chlorides=200

Sep 12, 2010



WOB=14.5
RPM=93
PP=11744
Vol=3.10



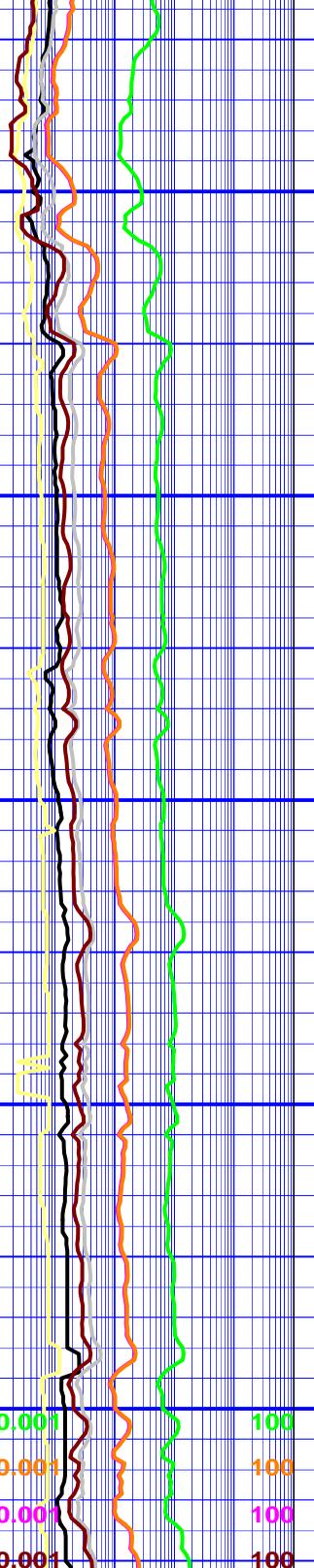
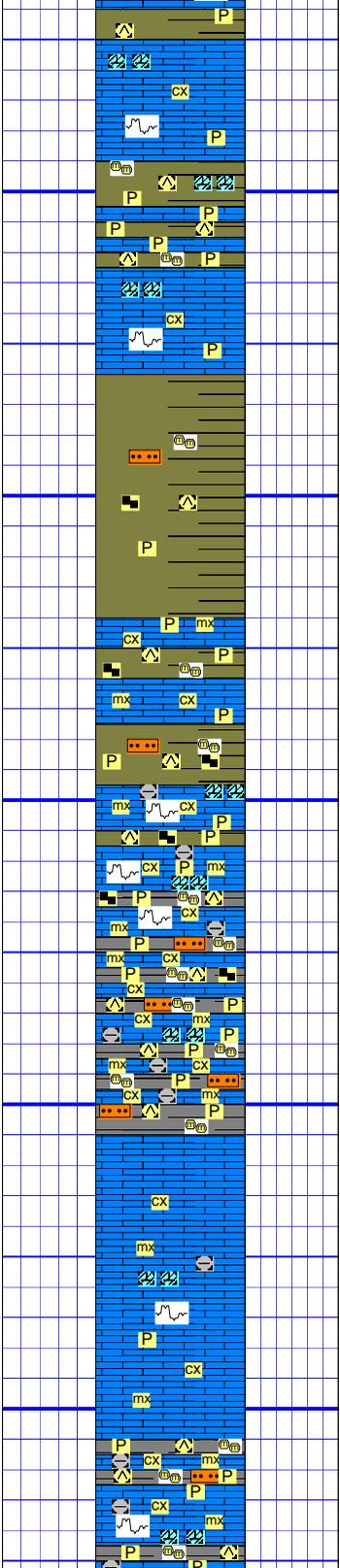
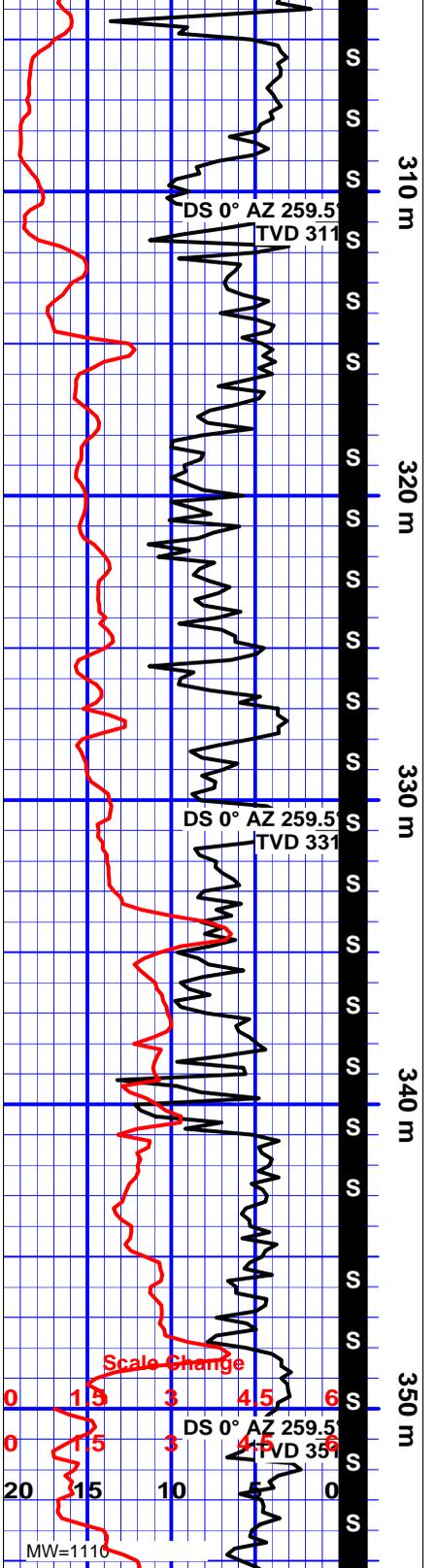
Limestone: dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

Limestone: of white, buff, light - medium brown, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylolitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylolitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Shale: green gray, medium gray, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.



Limestone: off white, buff, light - medium brown, cream, massive, mudstone, crypto crystalline, hard, in part brittle, stylonitic, abundant clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

Limestone: dark - light brown, off white, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylonitic, abundant clear & white, calcite stringers, "dirty" argillaceous, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

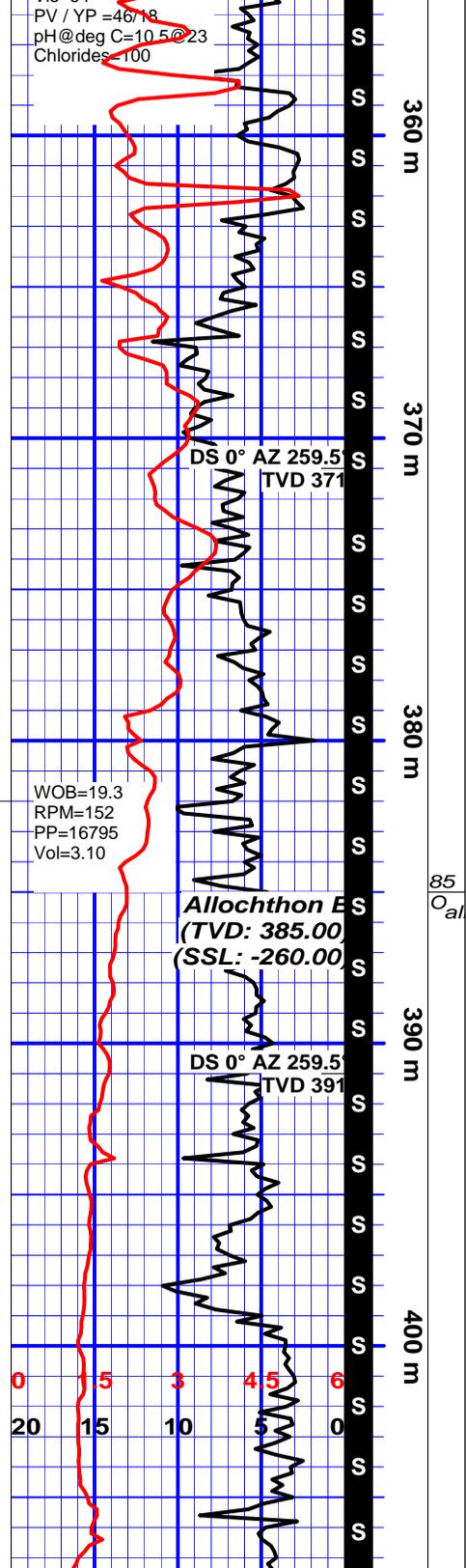
Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, splintery, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone, carbonaceous specks.

Limestone: off white, buff, light - medium brown, cream, massive, mudstone, crypto crystalline, hard, in part siliceous & brittle, stylonitic, fractures with frequent clear & white, calcite stringers, frequent fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

PV / YP =46/18
 pH@deg C=10.5@23
 Chlorides=100

Sep 13, 2010

WOB=19.3
 RPM=152
 PP=16795
 Vol=3.10

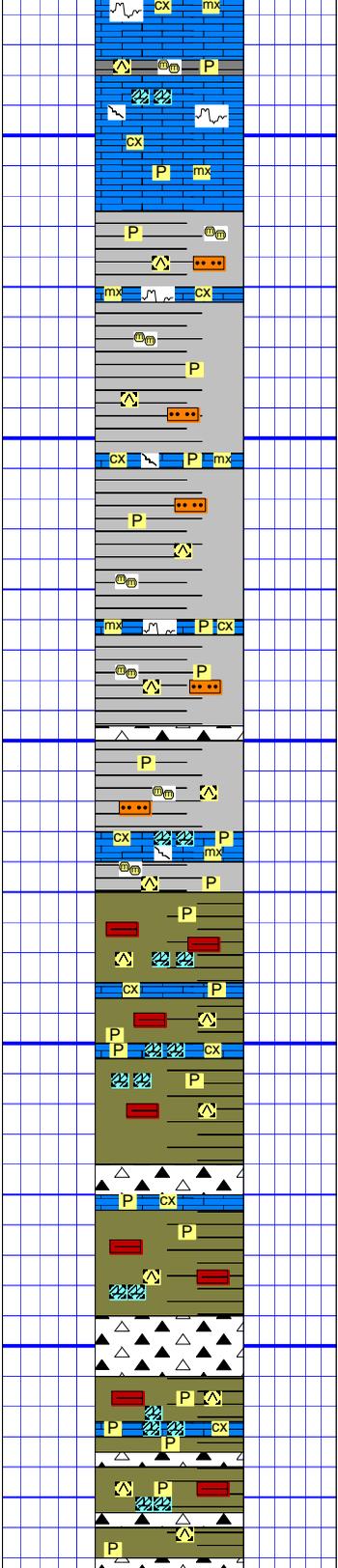


DS 0° AZ 259.5
 TVD 371

Allochthon E
 (TVD: 385.00)
 (SSL: -260.00)

DS 0° AZ 259.5
 TVD 391

85
 Oal



Allochthon B
 (TVD: 385.00)
 (SSL: -260.00)

0.001 100
 0.001 100
 0.001 100
 0.001 100
 0.001 100

Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

Limestone: light brown, off white, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, hard, in part brittle, stylonitic, fractures with frequent clear & white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Chert: reddish brown, light pale gray, light brown, very hard, angular, conchoidal.

Shale: green gray, medium gray, reddish brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

Chert: green gray, reddish brown, light pale gray, very hard, angular, conchoidal.

Chert: green gray, reddish brown, light pale gray, very hard, angular, conchoidal.

Shale: green gray, medium - dark gray, reddish brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent

Sep 14, 2010

WOB=23.0
RPM=95
PP=17735
Vol=3.10

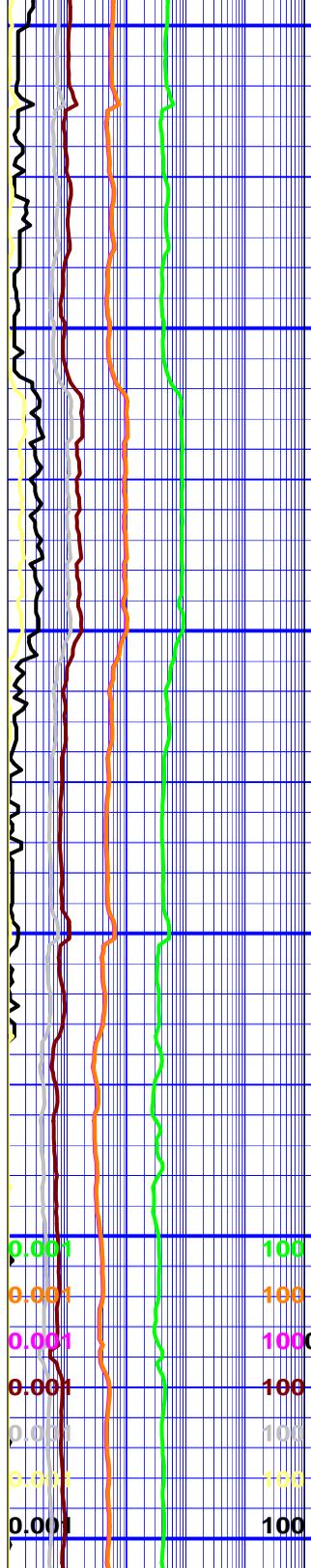
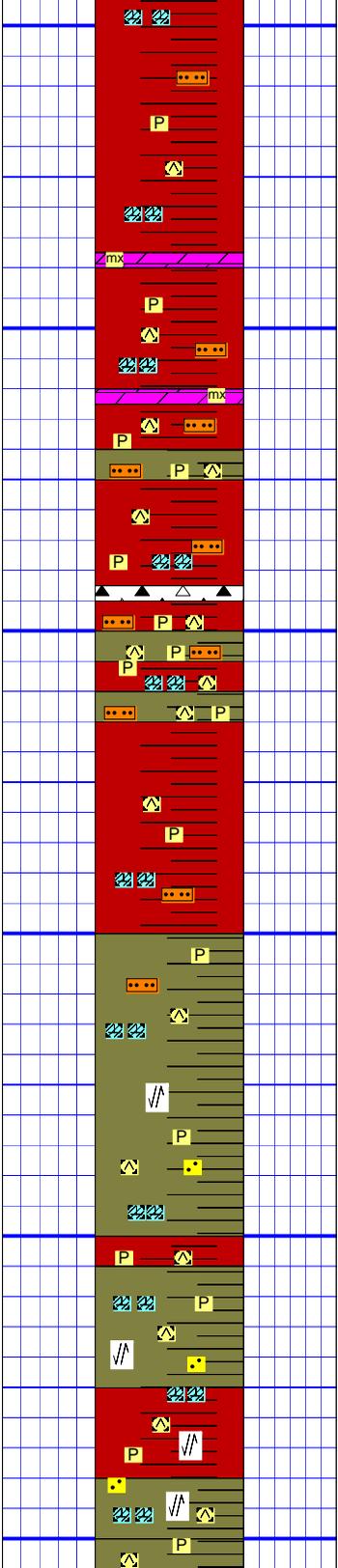
DS 0° AZ 259.5
TVD 471

DS 0° AZ 259.5
TVD 491

DS 0° AZ 259.5

660 m
470 m
480 m
490 m
500 m
510 m

0 75 150
0 15 3 45 6
20 15 10 5 0



0.001 100
0.001 100
0.001 100 0.2 2000
0.001 100
0.001 100
0.001 100

Shale: red brown, trace green gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

Dolomite: off white, light gray, hard, in part brittle, micro crystalline to crystalline, no visible porosity, no shows.

Shale: red brown, occasional green gray, medium - dark gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

Chert: light pale gray, light green, buff, clear, very hard, angular, conchoidal.

Shale - Siltstone: red brown, occasional green gray, medium - dark gray, firm - hard, earthy, siliceous, in part brittle, platy - blocky, grading siltstone, trace fine disseminated pyrite, non calcareous, trace thin cross cutting calcite stringers.

Shale: green gray, medium - dark gray, trace red brown, firm - hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite stringers.

Shale: 50% green gray, 50% reddish brown, firm - very hard, siliceous, in part brittle, platy - blocky, splintery, trace fine disseminated pyrite, non calcareous, frequent thin cross cutting calcite + quartz stringers, frequent slickenside, occasional off white very hard indurated sandstone grains.

Sfc
340mm
@ 570r

MW=1110
Vis=100
PV / YP =60/25
pH@deg C=9.5@23
Chlorides=200

TVD 563

Scale C Bit#2 Reed T44
-432.00 / 94.25 hrs

Cond 3-3-BT-M
-F-3-CI-TD

NB#3 Smith MS 1616

Sep 16, 2010

40 30

40 30 20 10 0

S 0.3° AZ 259.5

TVD 604.75

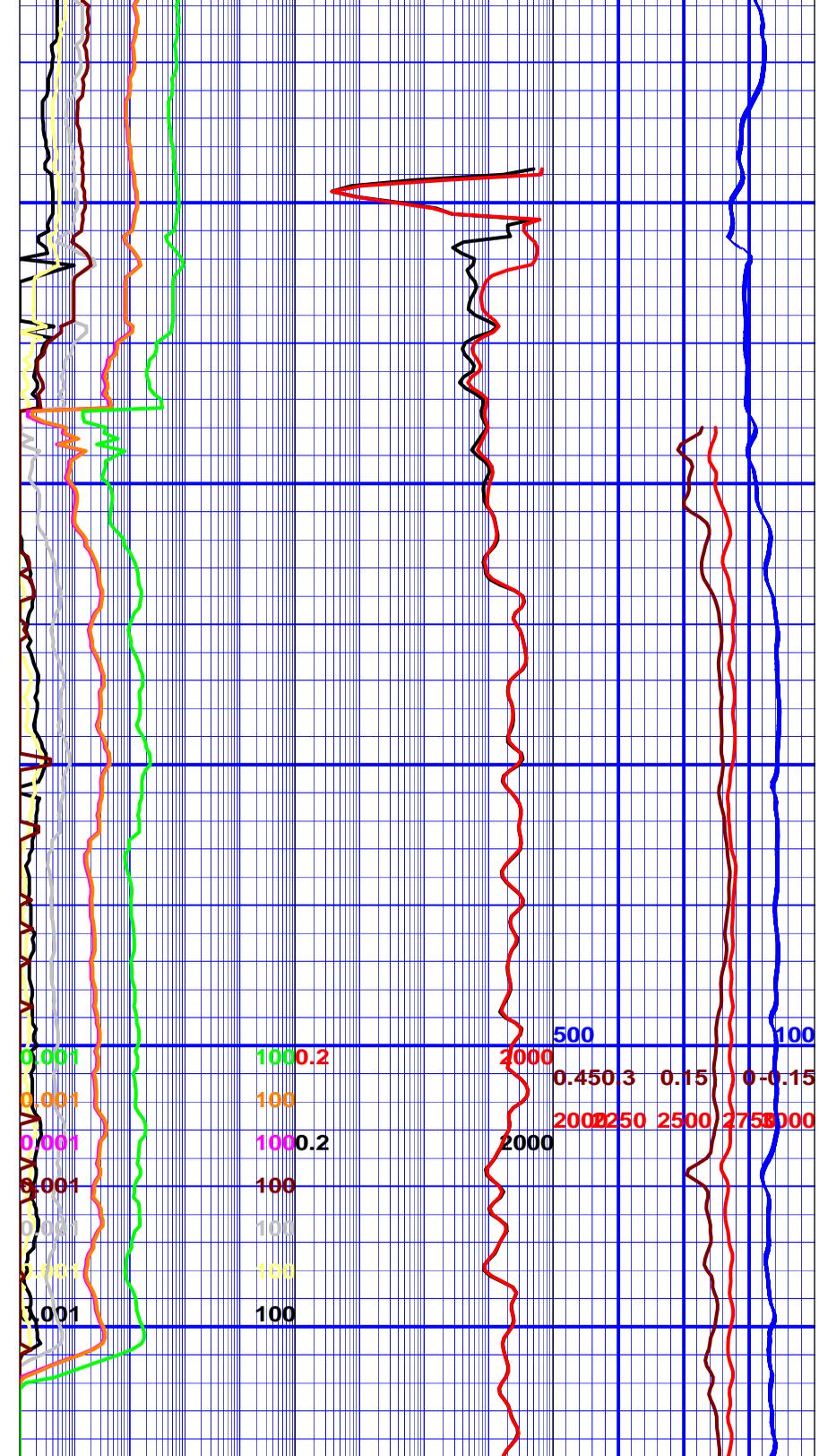
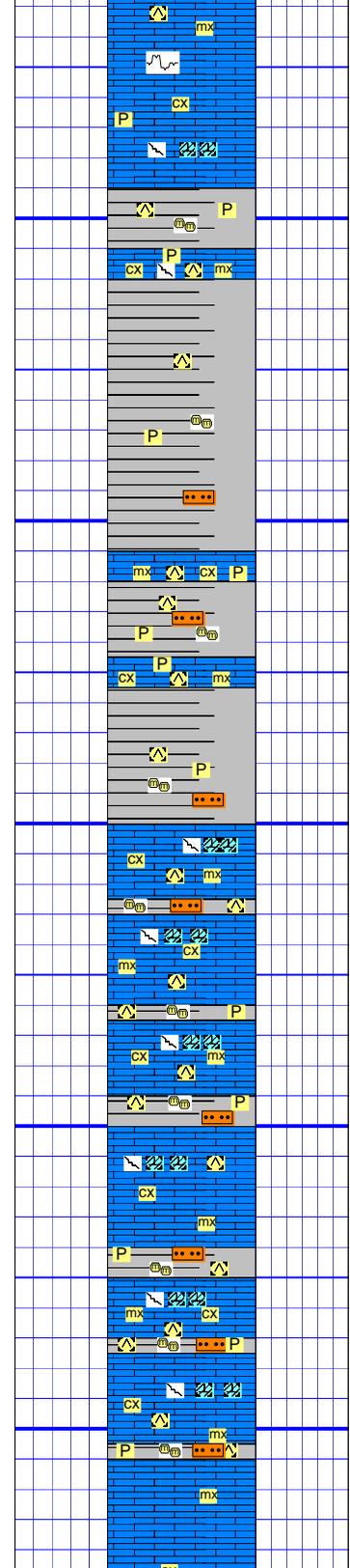
570 m

580 m

590 m

600 m

610 m



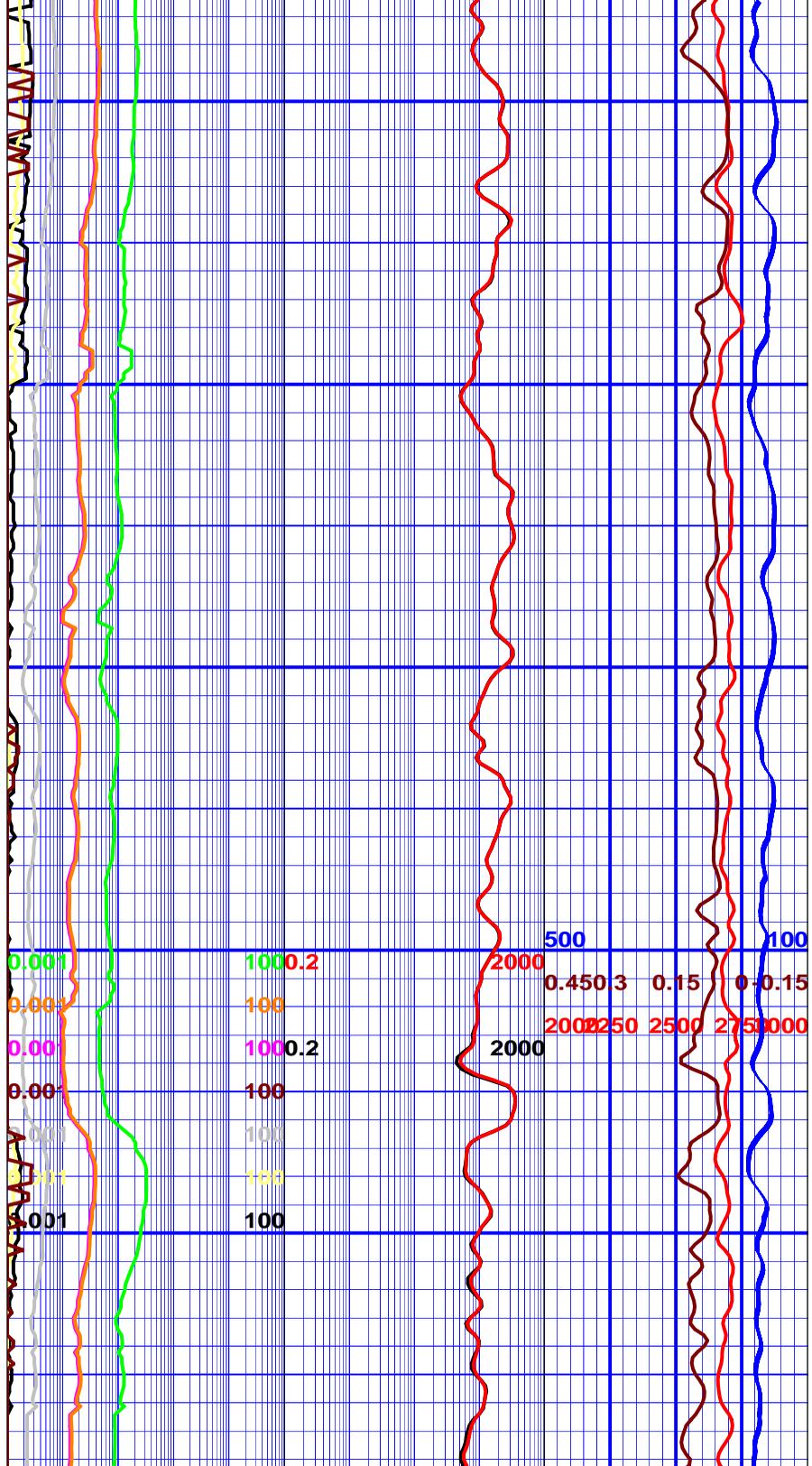
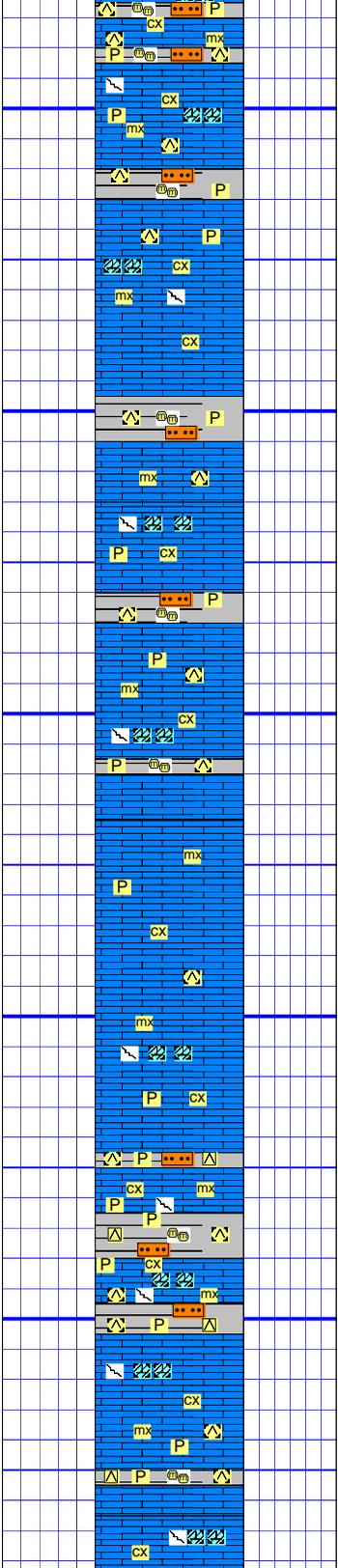
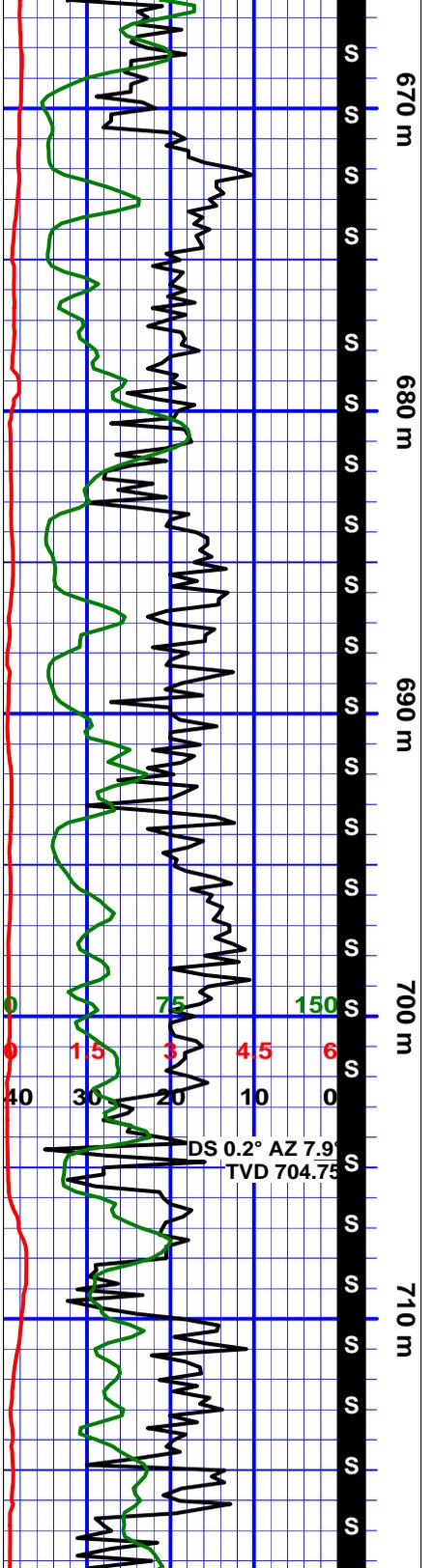
Shale: dark - medium gray, green gray, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone. (Btms Up for TOTAL DEPTH of 572mMD in 444.5mm section.)

Limestone: light brown, medium gray, massive, mudstone, crypto crystalline - micro crystalline, hard - very hard, in part brittle & siliceous, fractures with occasional clear & white, calcite stringers, fine grained disseminated pyrite, trace light brown chert, tight, no shows.

Shale: dark - medium gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

Limestone: light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

0.001	100	0.2	2000	500	100
0.001	100		0.450	3	0.15
0.001	100	0.2	2000	250	2500
0.001	100		2000	275	3000
0.001	100				
0.001	100				

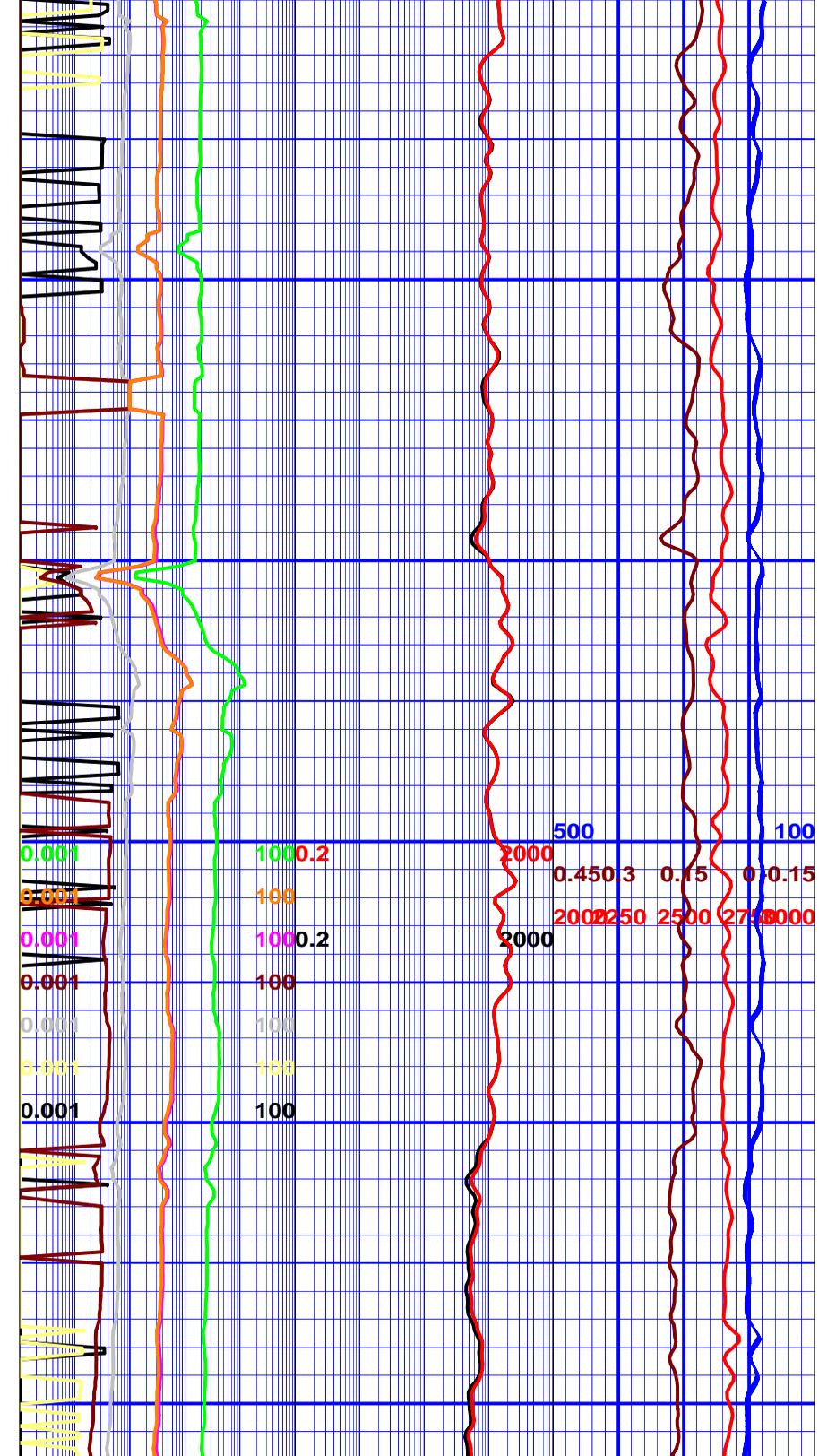
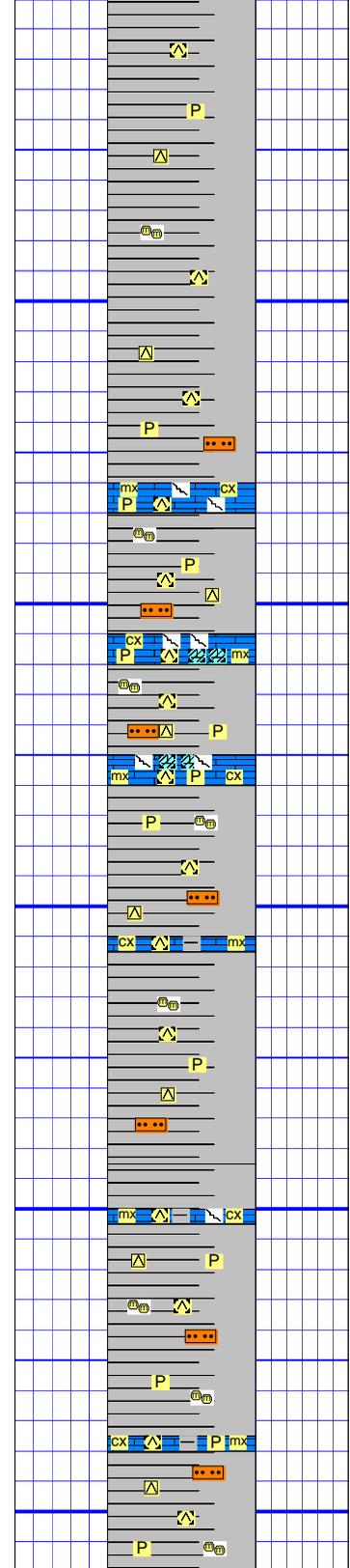
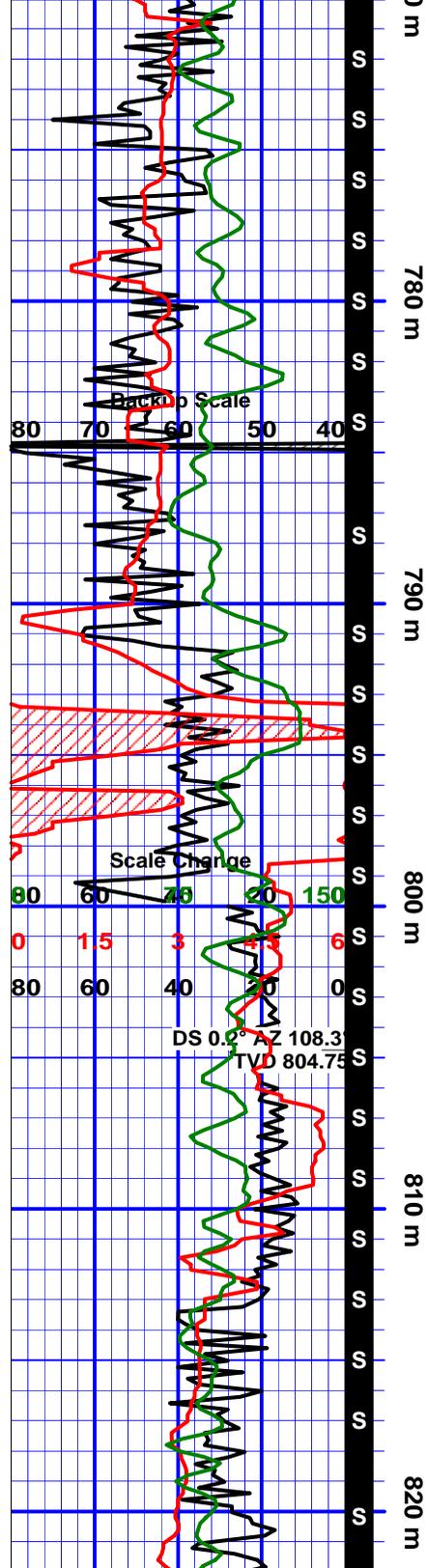


Limestone: light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

Limestone: light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, tight, no shows.

Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated pyrite, non calcareous, micro micaceous, grading siltstone.

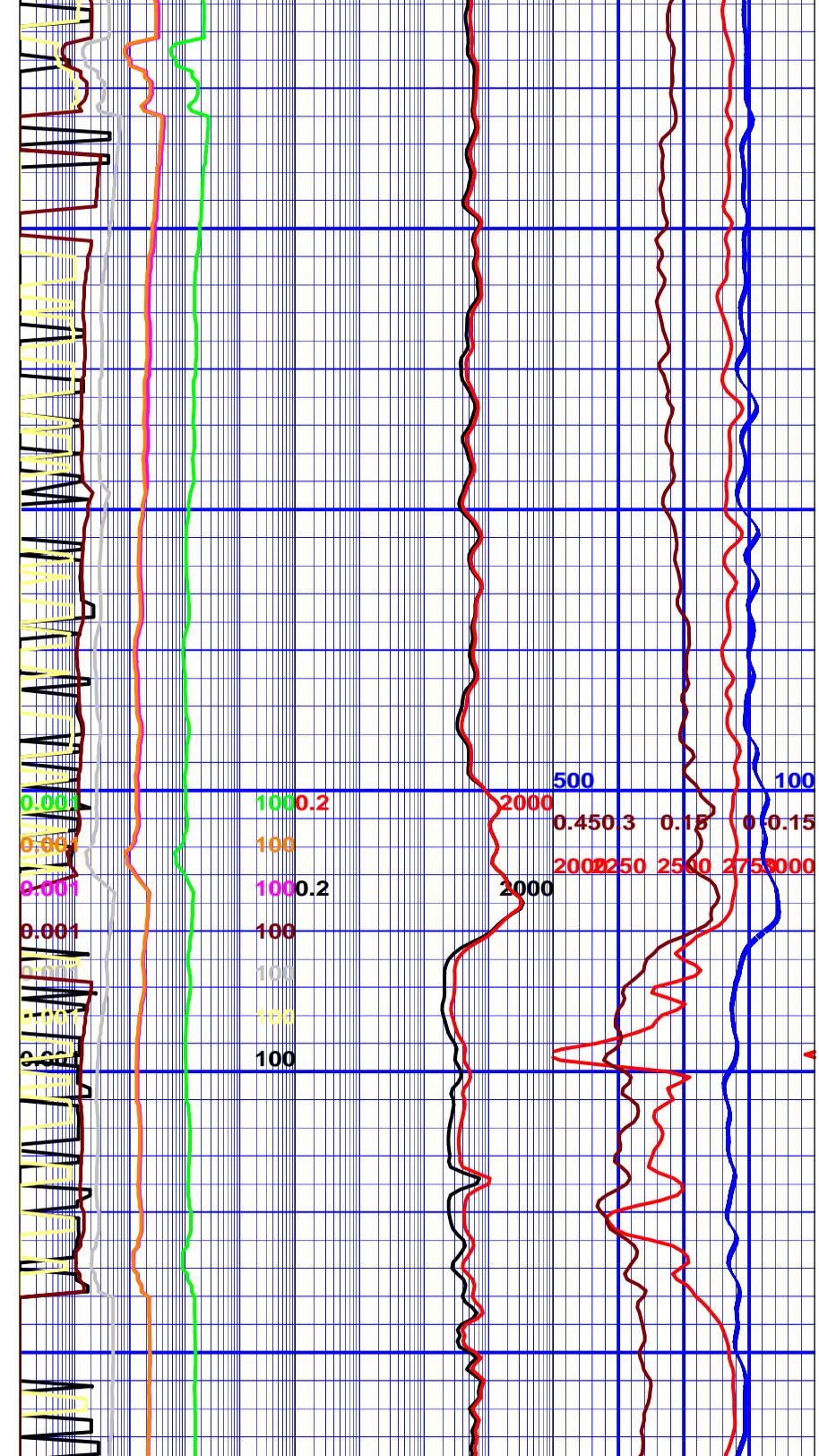
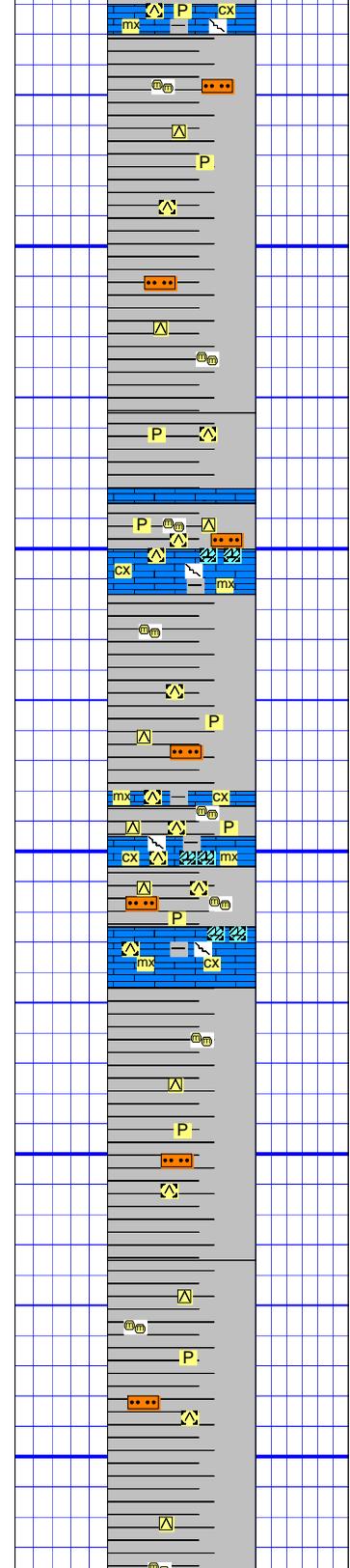
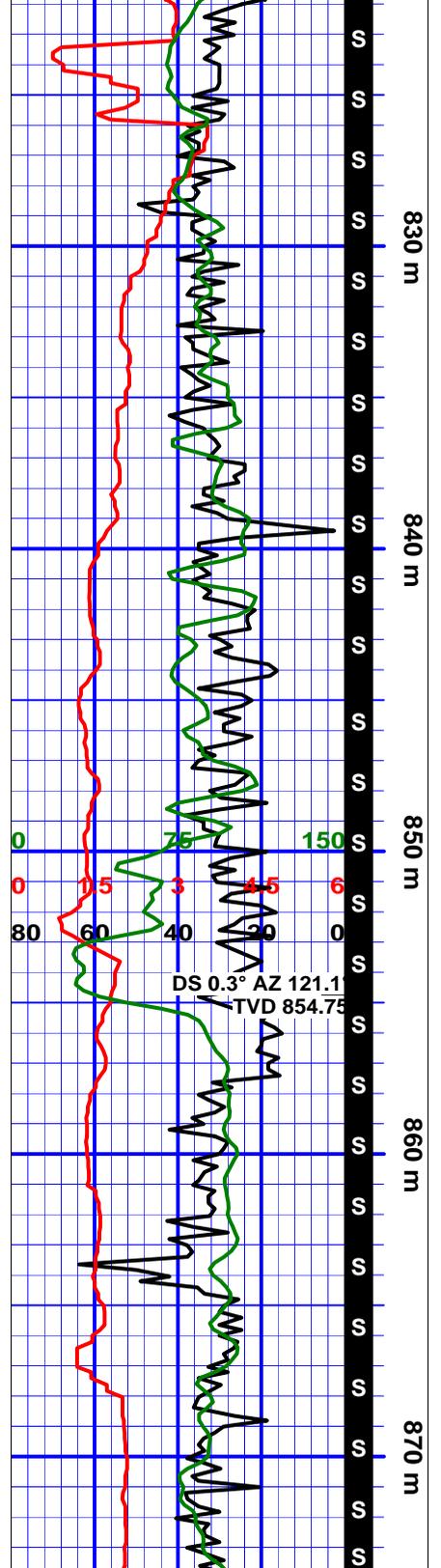


Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

Limestone: light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, frequent fractures with white and clear calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

Limestone: light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

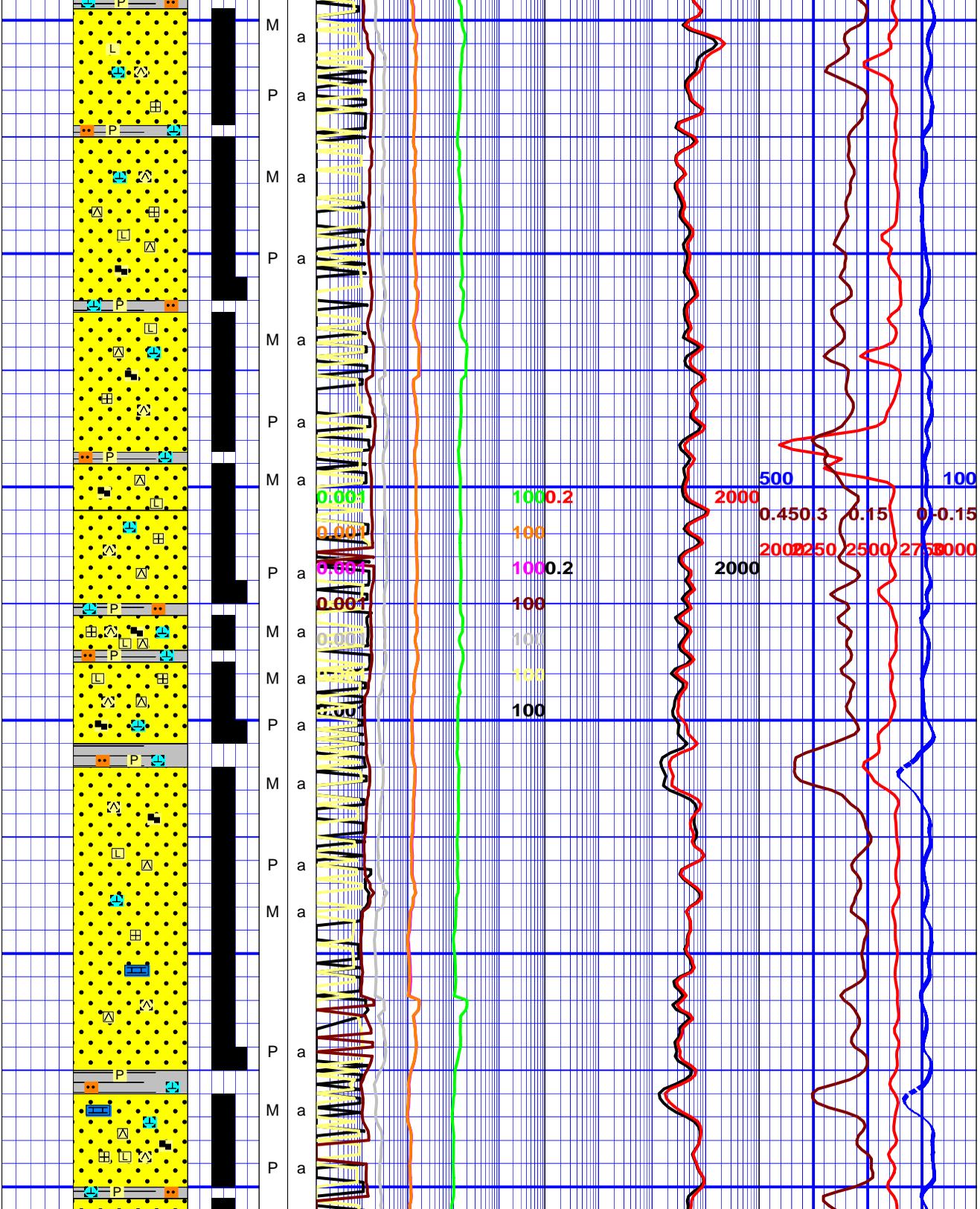
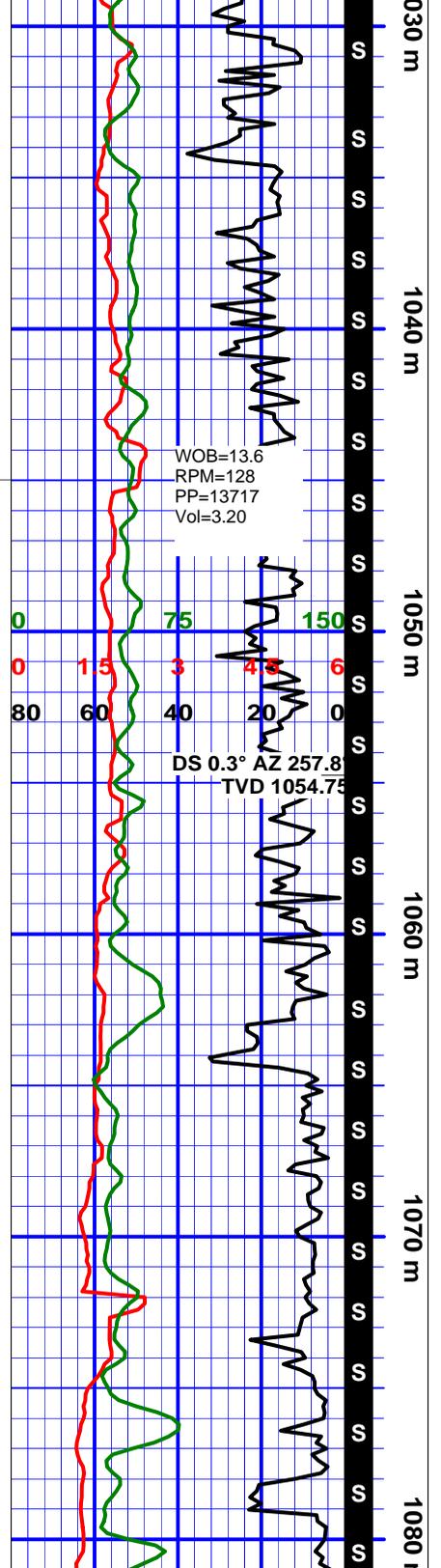


Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

Limestone: light brown, medium gray, buff, cream, massive, mudstone, crypto crystalline - micro crystalline, firm - very hard, in part brittle & siliceous, slightly argillaceous, fractures with occasional white, calcite stringers, fine grained disseminated pyrite, trace bitumen staining, tight, no shows.

Shale: dark - medium gray, green gray, black, firm - very hard, siliceous with thin white quartz stringers, in part brittle, platy - blocky, occasional disseminated + nodular pyrite, non calcareous, micro micaceous, grading siltstone.

Sep 22, 2010



Sandstone: medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green sericitized serpentine, occasional carbonaceous specks, tight, no shows.

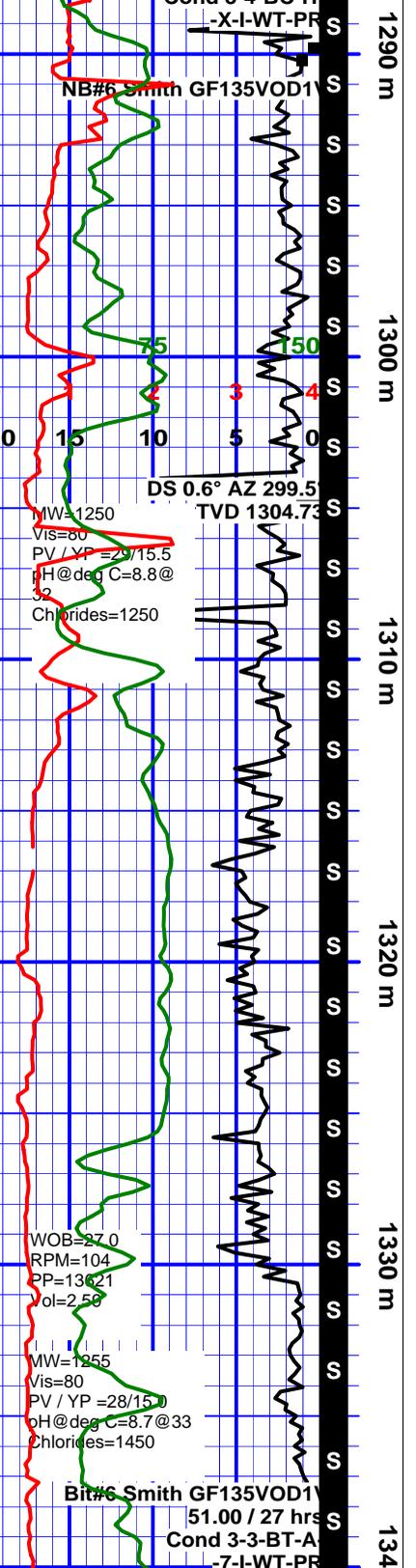
Shale: dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite.

Sandstone: medium - dark gray, off white, mottled gray, occasional grains salt & pepper, fine to medium grained occasional coarse grained, moderate to poorly sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, very hard, indurated, occasional grains of feldspar, lithic fragments, & green sericitized serpentine, occasional carbonaceous specks, frequent white chalky limestone stringers, tight, no shows.

Shale: dark - medium gray, firm to hard, blocky to platy, silty, slightly calcareous, occasional disseminated pyrite.

Sep 28, 2010

Sep 29, 2010



NB#6 Smith GF135VOD1

DS 0.6° AZ 299.5
TVD 1304.73

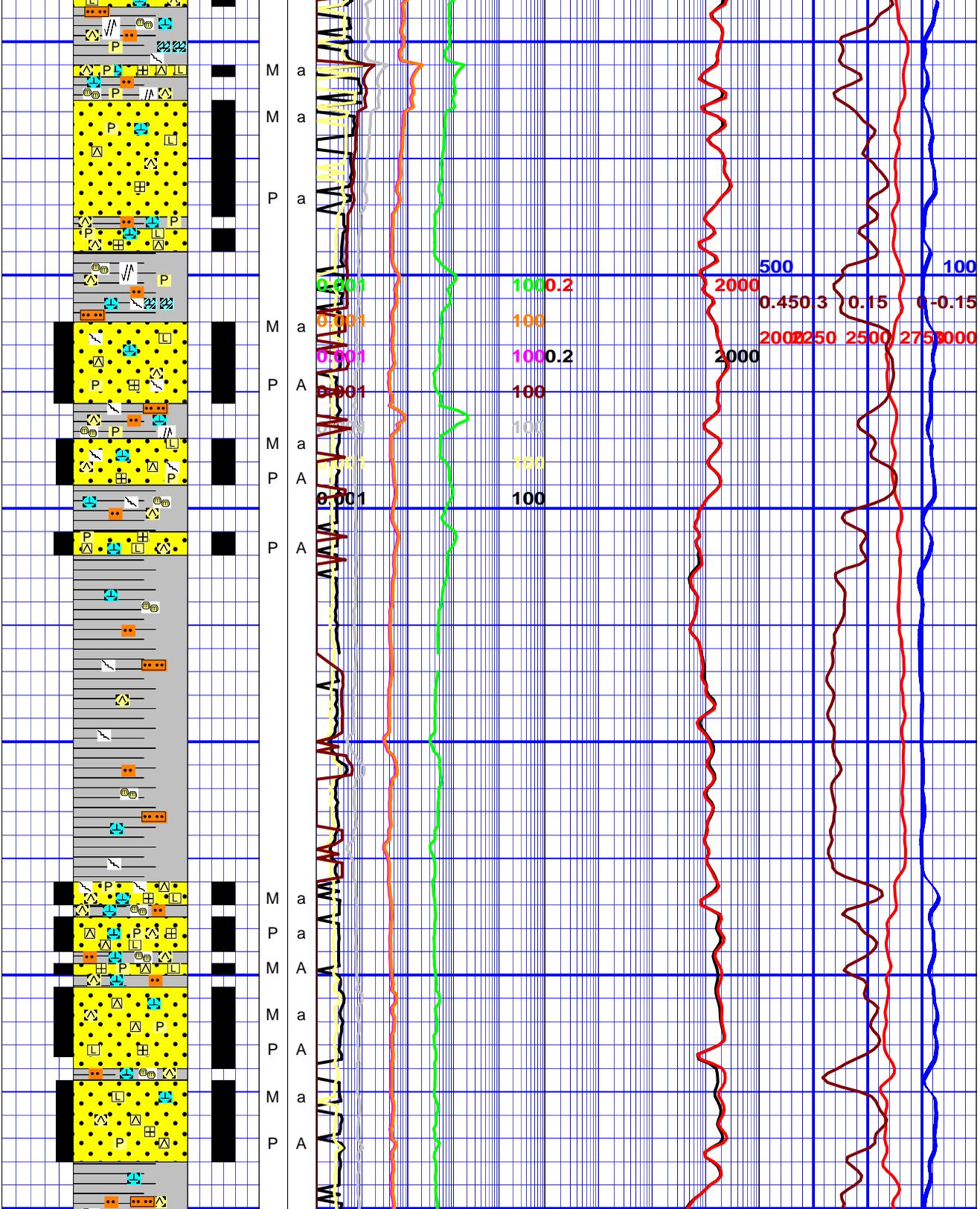
MW=1250
Vis=80
PV / YP =20/15.5
pH@deg C=8.8@
Chlorides=1250

WOB=27.0
RPM=104
PP=136.21
Vol=2.56

MW=1255
Vis=80
PV / YP =28/15
pH@deg C=8.7@33
Chlorides=1450

Bit#6 Smith GF135VOD1

51.00 / 27 hrs
Cond 3-3-BT-A
7-I-WT-PR



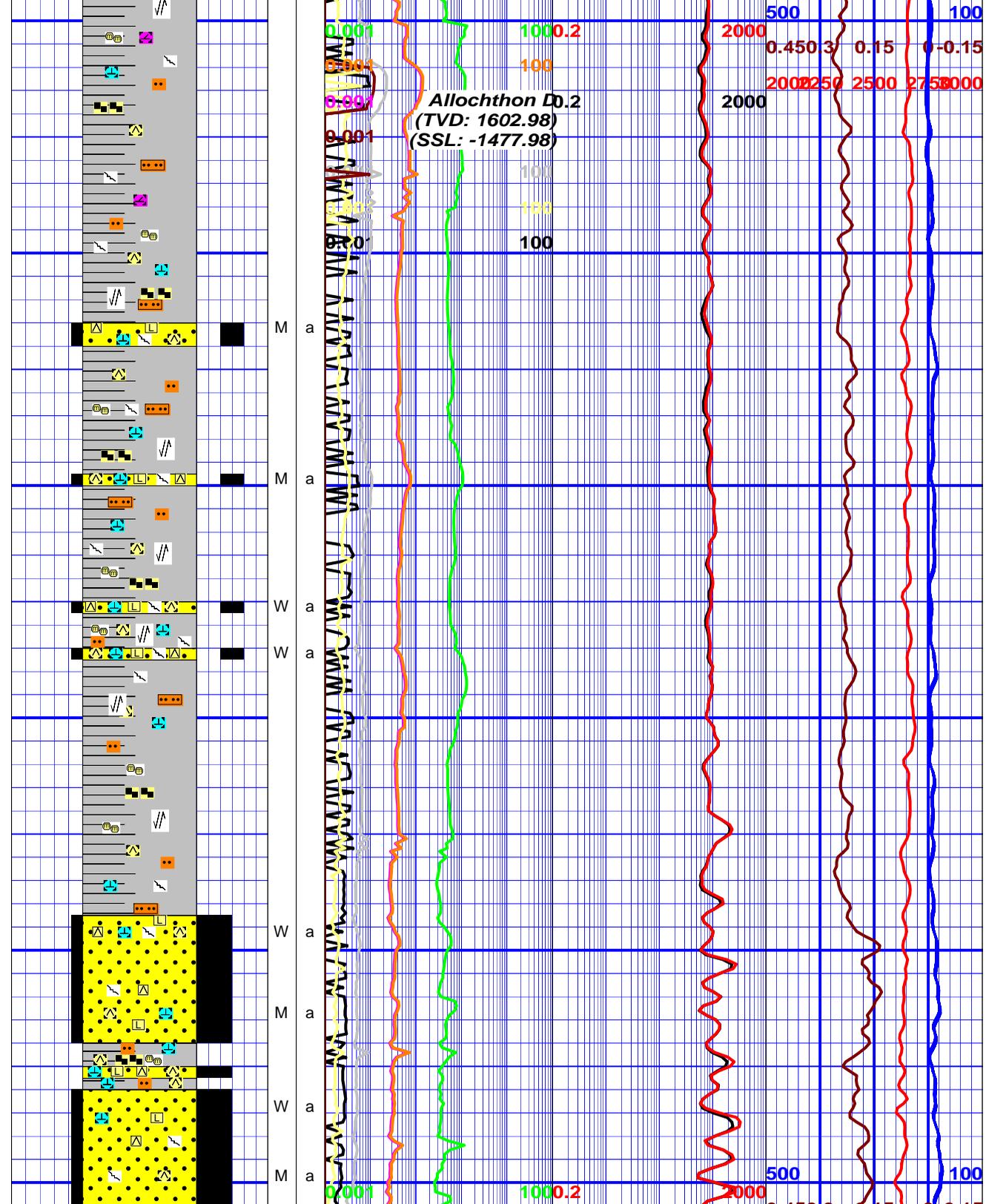
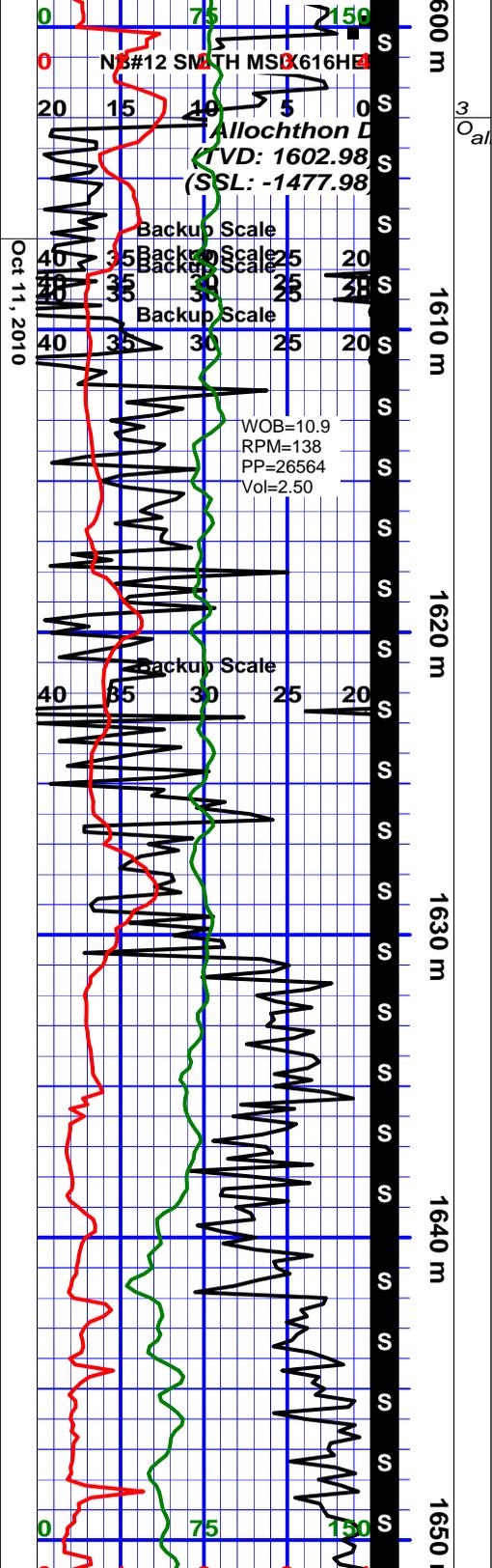
Sandstone: medium - dark gray, mottled gray, light gray, fine to medium grained, moderate to poorly sorted, subangular, mainly quartz, strongly consolidated with silica & calcareous cement, hard to very hard, indurated, quartzitic, occasional grains of feldspar, lithic fragments, occasional disseminated fine grained pyrite, tight, no shows.

Shale: medium to dark gray, gray brown, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, occasional slickenside, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

Sandstone: medium - dark gray, mottled gray, light gray, clear, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular to angular, mainly quartz, strongly consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, frequent fractures with white calcite veining, trace bitumen staining, 5% to 8% porosity, no shows.

Shale: medium to dark gray, gray brown, firm to very hard, blocky to platy, splintery, silty, siliceous + calcareous matrix, frequent cross cutting very thin calcite veins, micro micaceous, grading siltstone.

Sandstone: medium - dark gray, mottled gray, light gray, clear, fine to medium grained, frequent coarse grained, moderate to poorly sorted, subangular to angular, mainly quartz, strongly consolidated with silica & calcareous cement, firm to very hard, indurated, in part quartzitic, occasional grains of feldspar, lithic fragments, green serpentine, & disseminated fine grained pyrite, frequent fractures with white calcite veining, trace bitumen staining, 5% to 8% porosity, no shows. (Abundant rock flour)



fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.

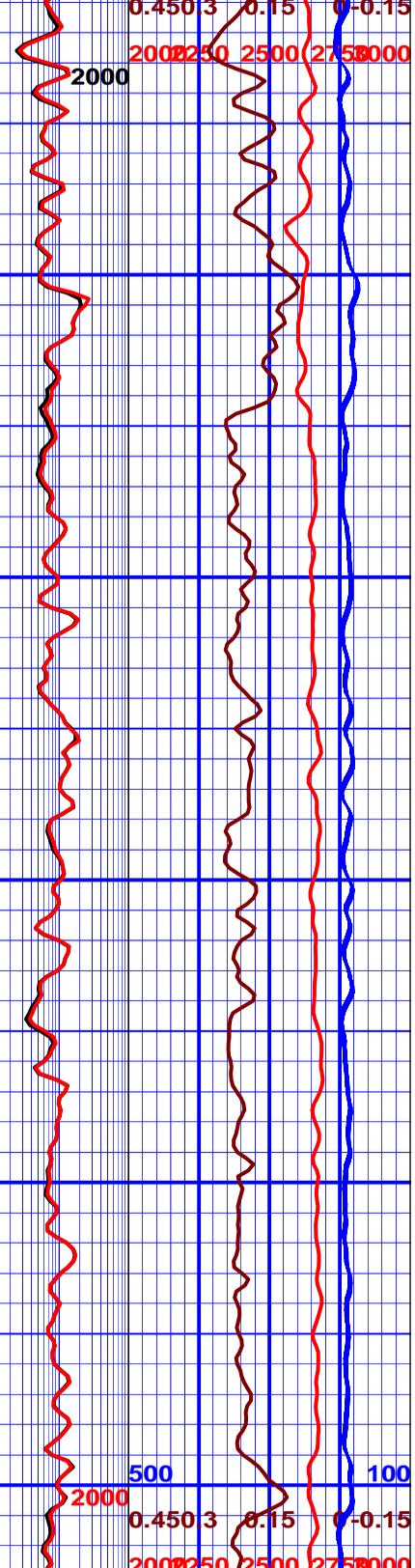
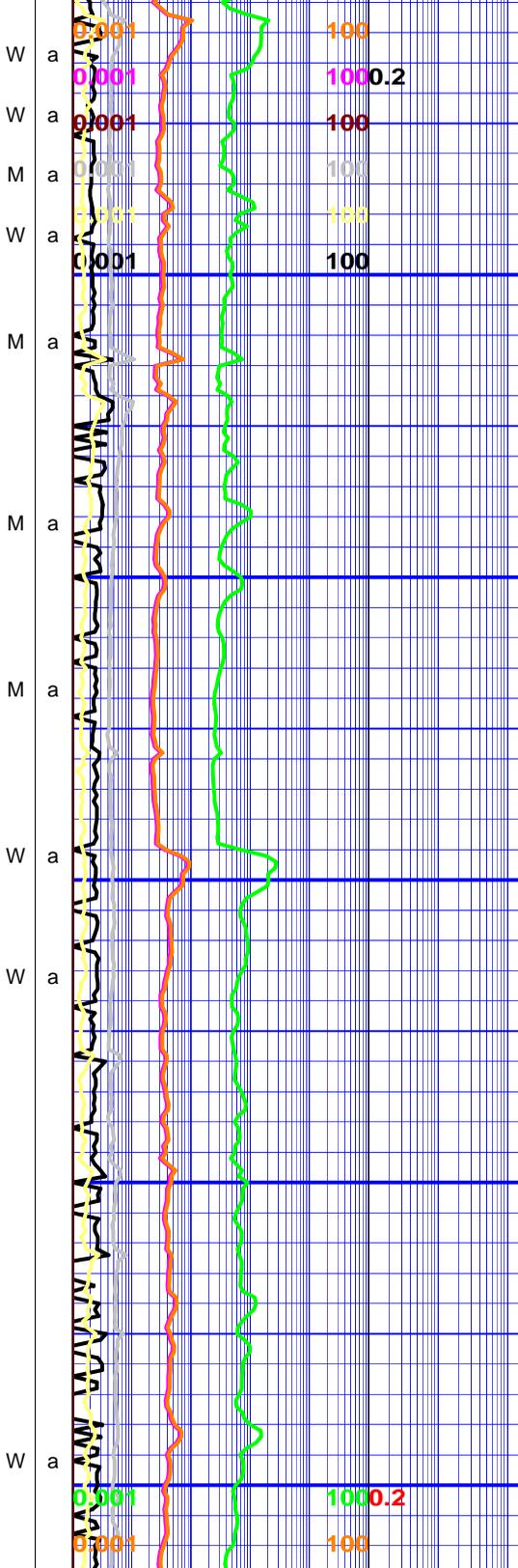
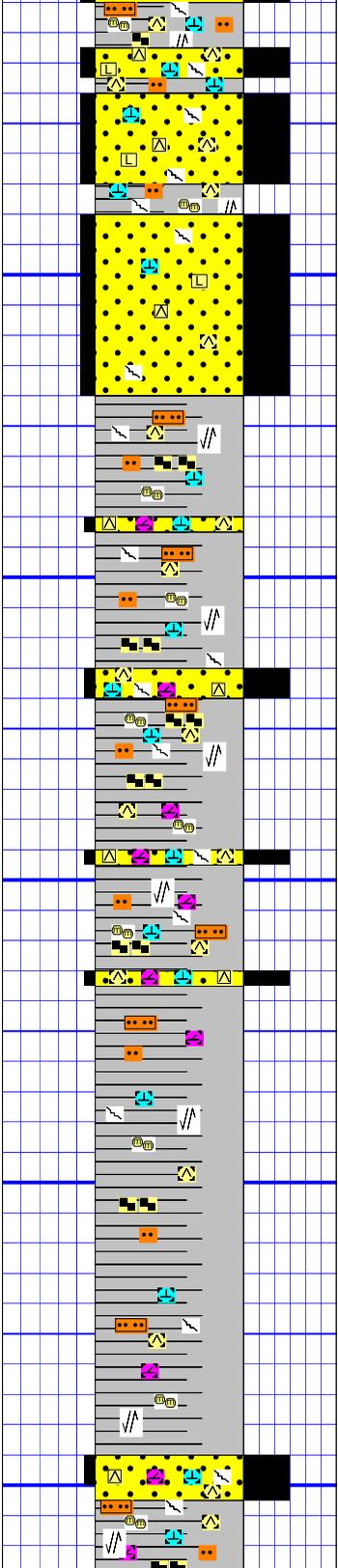
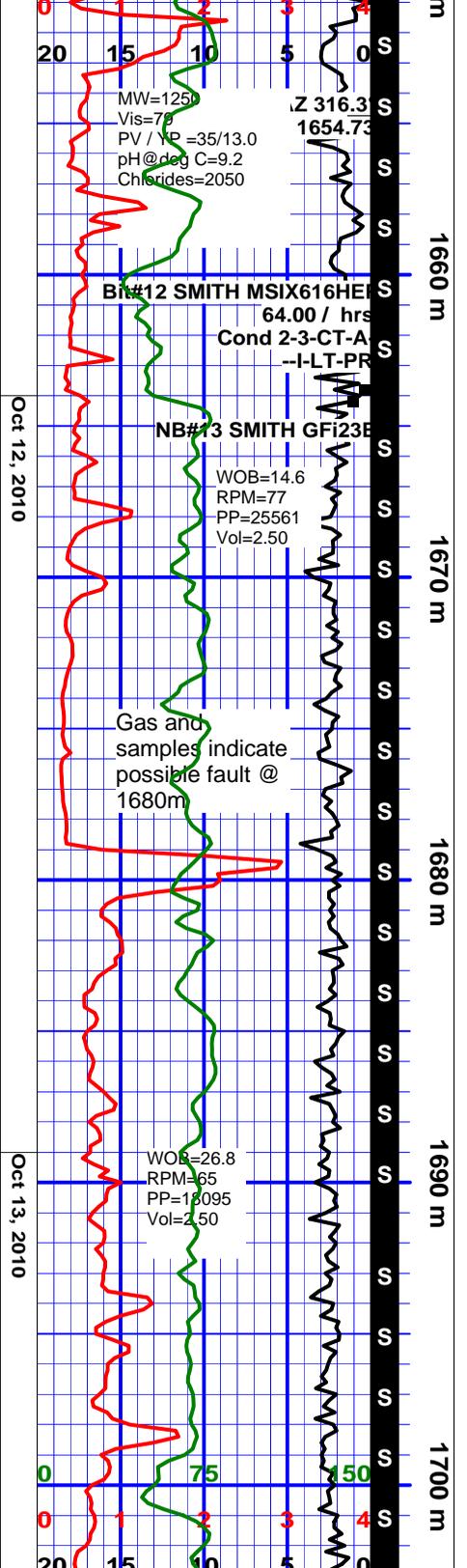
Shale: dark to medium gray, common light gray, firm to hard, platy, siliceous + calcs/dolomitic matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone. @ 1600 POOH for PDC bit and medium speed Verttrak

Shale: dark to medium gray, predominately as above, firm to hard, platy, siliceous + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

Sandstone: medium to dark gray, mottled gray, off white, light gray,, silty to fine grained, moderate to well sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows. **Reduce WOB due to inclination.**

Shale: dark to medium gray, predominately as above, firm to hard, platy, siliceous + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

Sandstone: medium dolomi dark gray, mottled gray, off white, light gray,, silty to fine grained, moderate to well sorted, subangular, mainly quartz, consolidated with silica & calcareous cement, firm to very hard, indurated, lithic fragments & minor serpentine, frequent fractures filled with white calcite, 3% to 5% intergranular porosity, no shows.



Shale: dark to medium gray, predominately as above, firm to hard, platy, siliceous + calcareous matrix, silty, micro micaceous, occasional rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

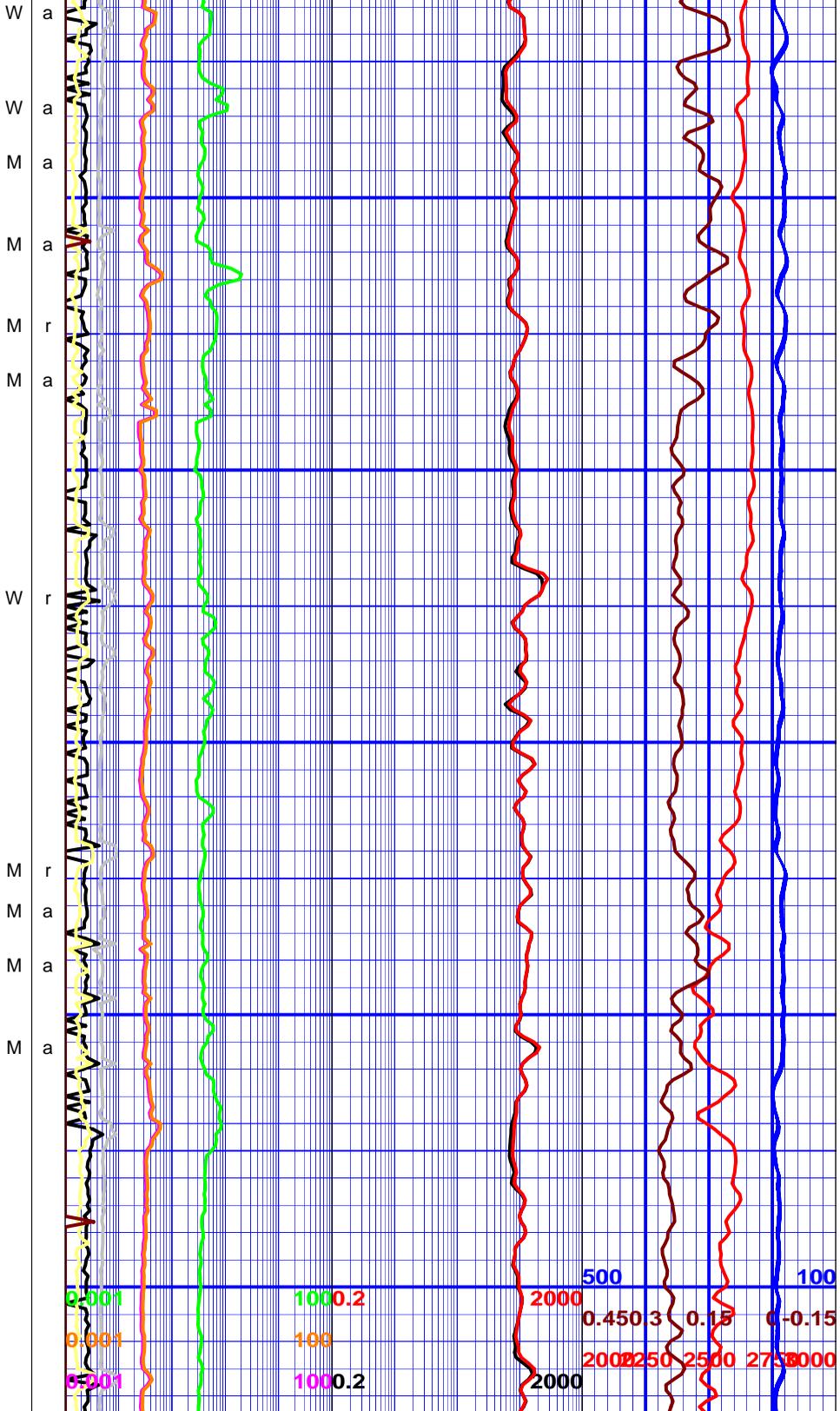
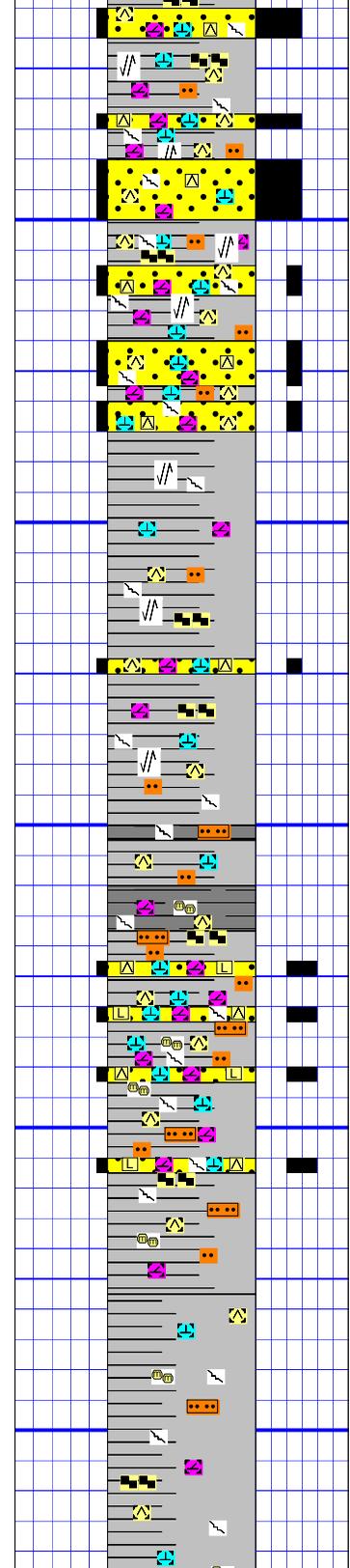
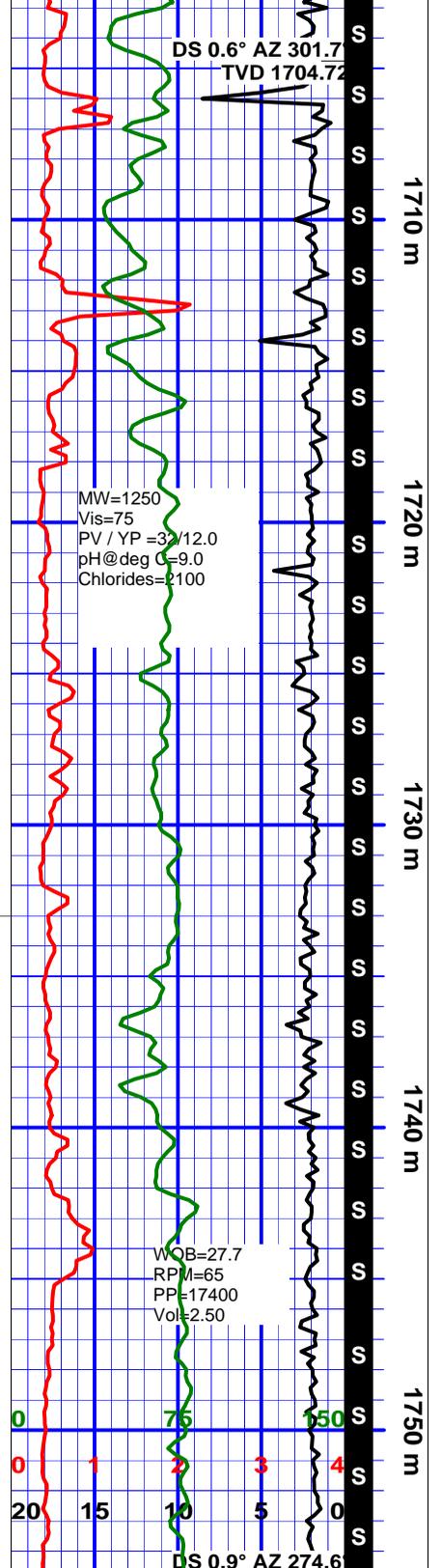
Sandstone: light to medium gray, light to medium brown mottled gray, off white, silty to fine grained, moderate to well sorted, subangular, predominately clear and frosted quartz, rare dark gray, orange and dark brown chert, consolidated with silica & calcareous cement, very hard, indurated, rare fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

Shale: dark to medium gray, firm to hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

Sandstone: dark to medium gray, off white in part, silty to fine grained, moderate to well sorted, subangular, predominately clear & frosted quartz, rare dark gray, common dark gray to dark brm chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, common fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

Shale: medium - dark gray, hard, blocky, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, rare thin carbonaceous stringers, common slickenside, common fractures, grading to siltstone.

Oct 14, 2010



Sandstone: medium gray, dark gray in part, off white, fine grained, rare medium - coarse grain poor-moderate sorted, subangular to rounded in part, predominately clear & frosted quartz, common light to dark gray chert, consolidated with silica, dolomitic & calcareous cement, very hard, indurated, rare, fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

Shale: dark gray to black, hard, blocky, rare platy, siliceous, dolomitic + calcareous matrix, silty, micro micaceous, occasional carbonaceous streaks, common calcite filled fractures, grading to siltstone.

Sandstone: medium gray to dark gray, rare off white, fine grained, rare medium-coarse grain, silty in part, moderate sorted, subangular to rounded in part, clear & frosted quartz, abundant light to dark gray chert, abundant lithics, common unconsolidated, silica, dolomitic & calcareous cement, very hard, indurated, occasional fractures filled with white calcite, tight to 3% intergranular porosity, no shows.

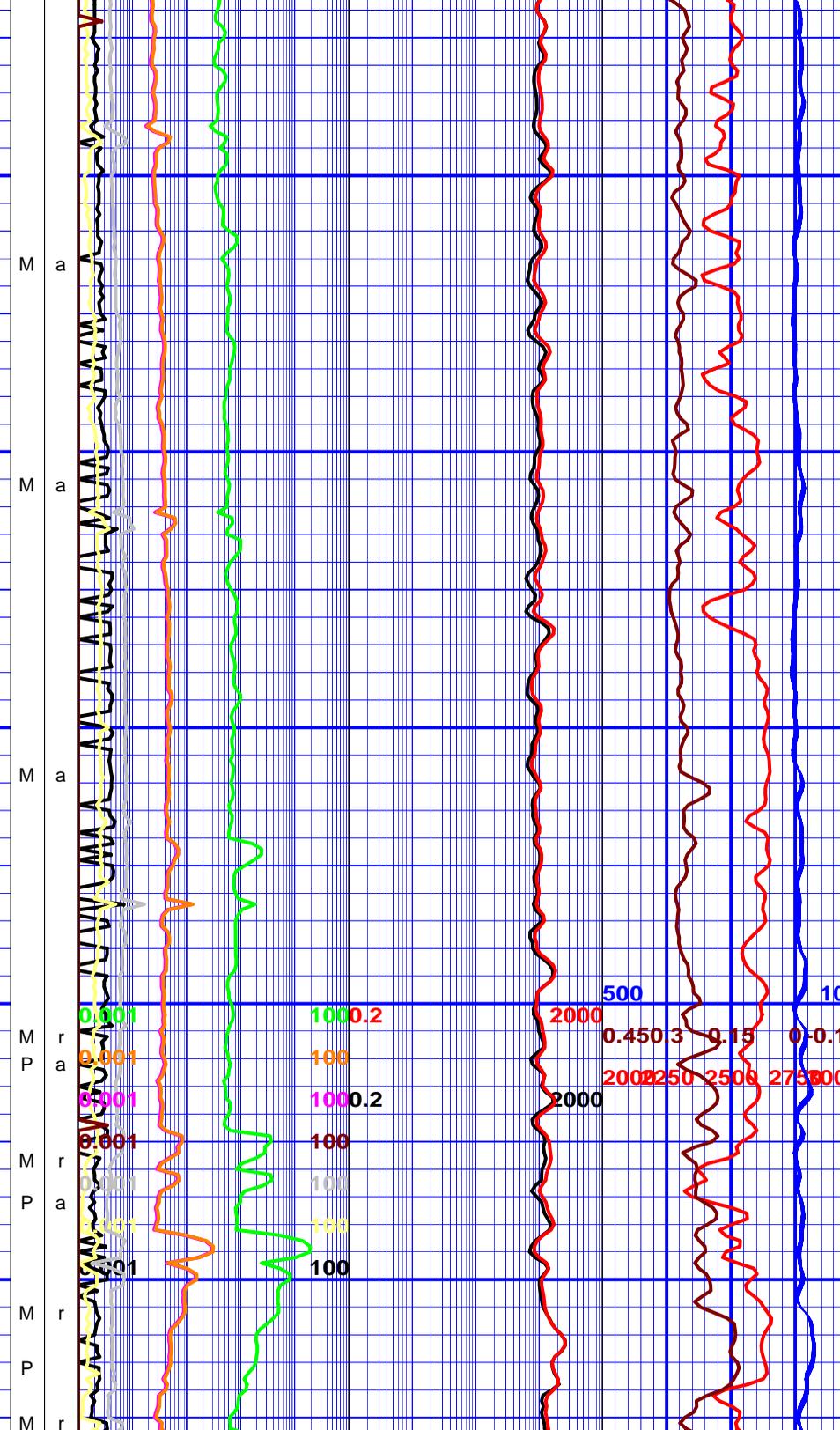
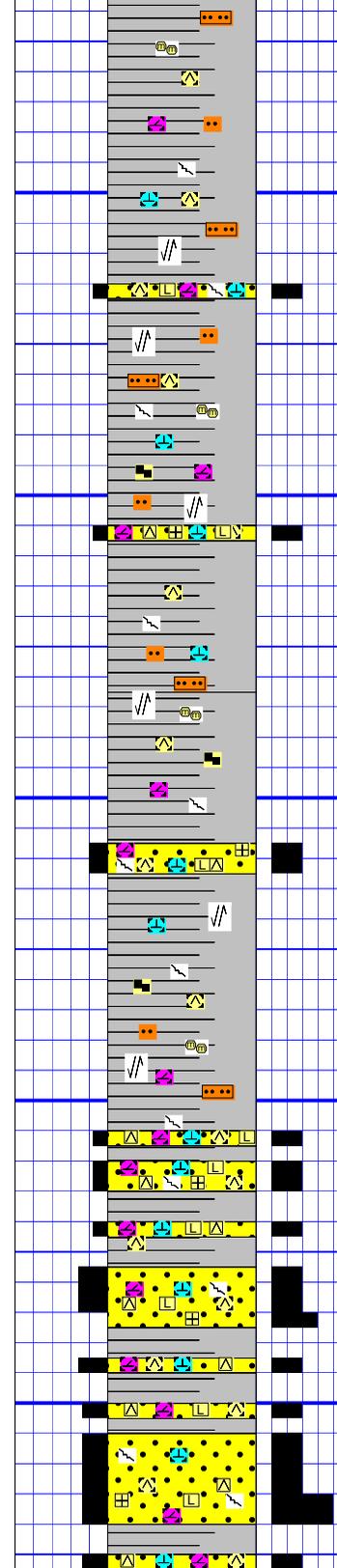
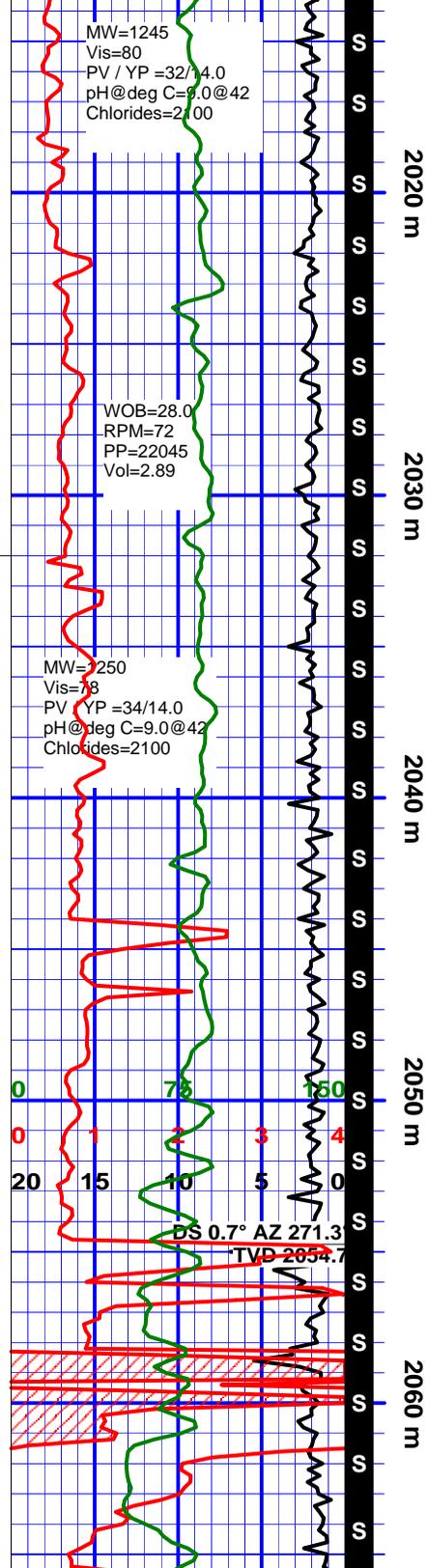
Oct 24, 2010

MW=1245
Vis=80
PV / YP =32/14.0
pH@deg C=9.0@42
Chlorides=2100

WOB=28.0
RPM=72
PP=22045
Vol=2.89

MW=1250
Vis=78
PV / YP =34/14.0
pH@deg C=9.0@42
Chlorides=2100

DS 0.7° AZ 271.3
TVD 2853.7

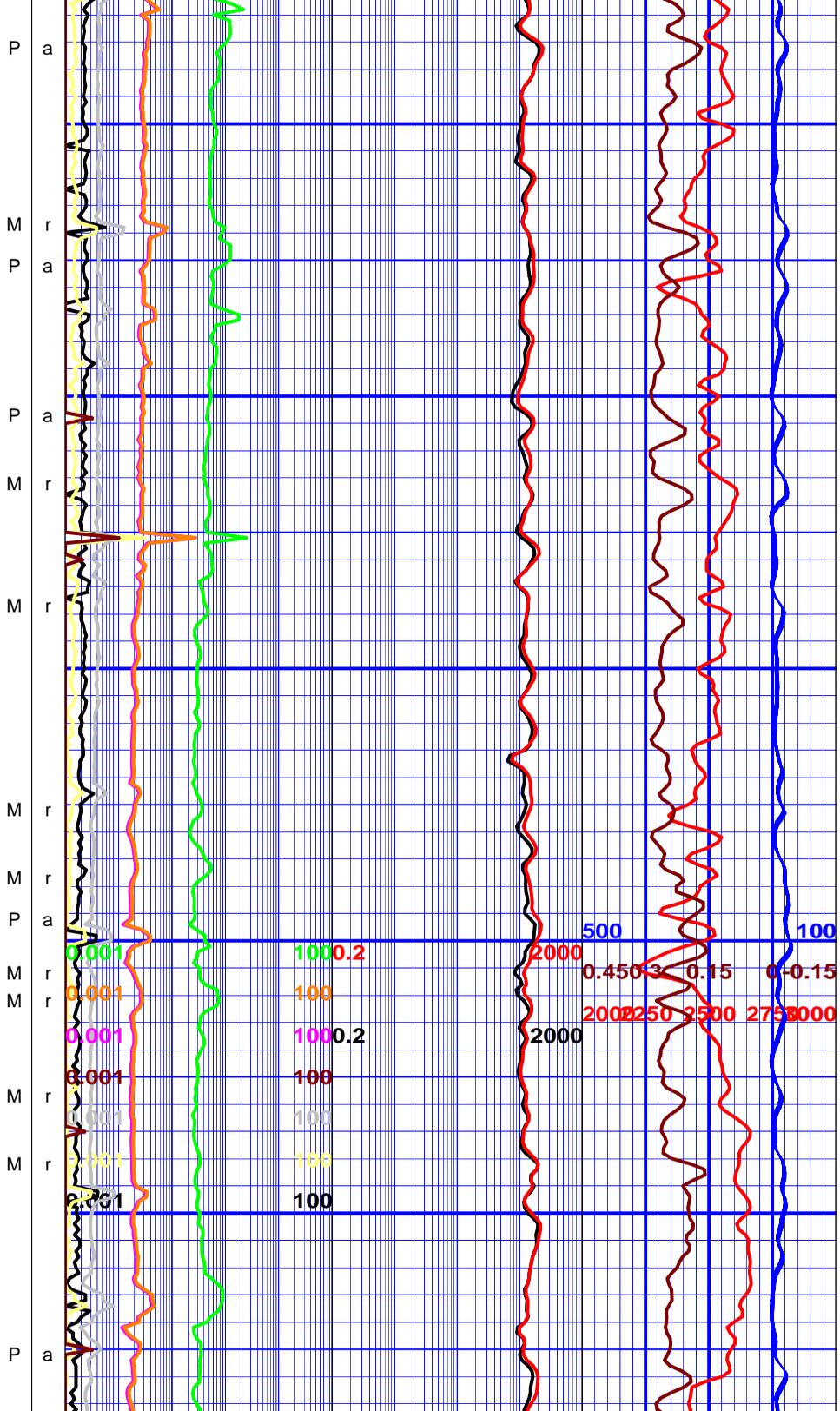
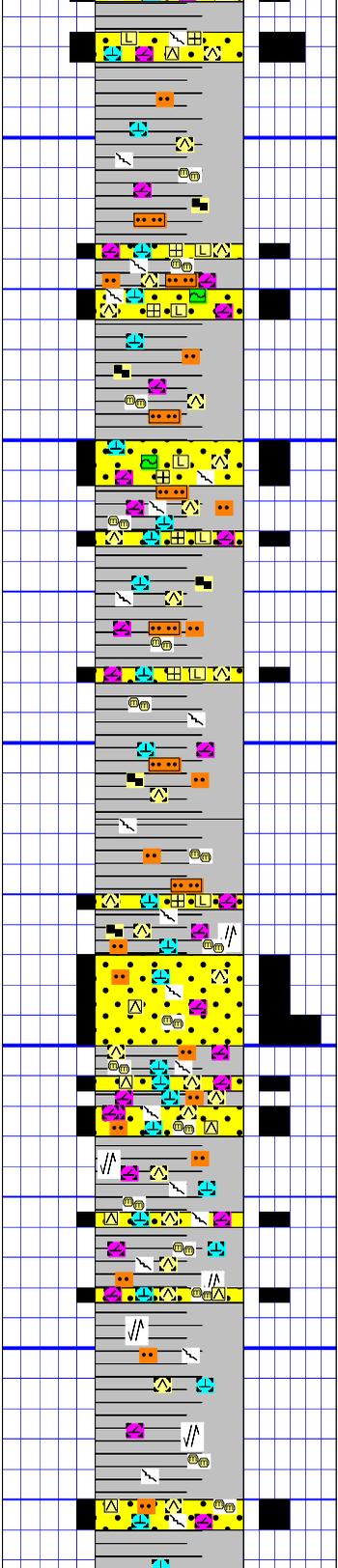
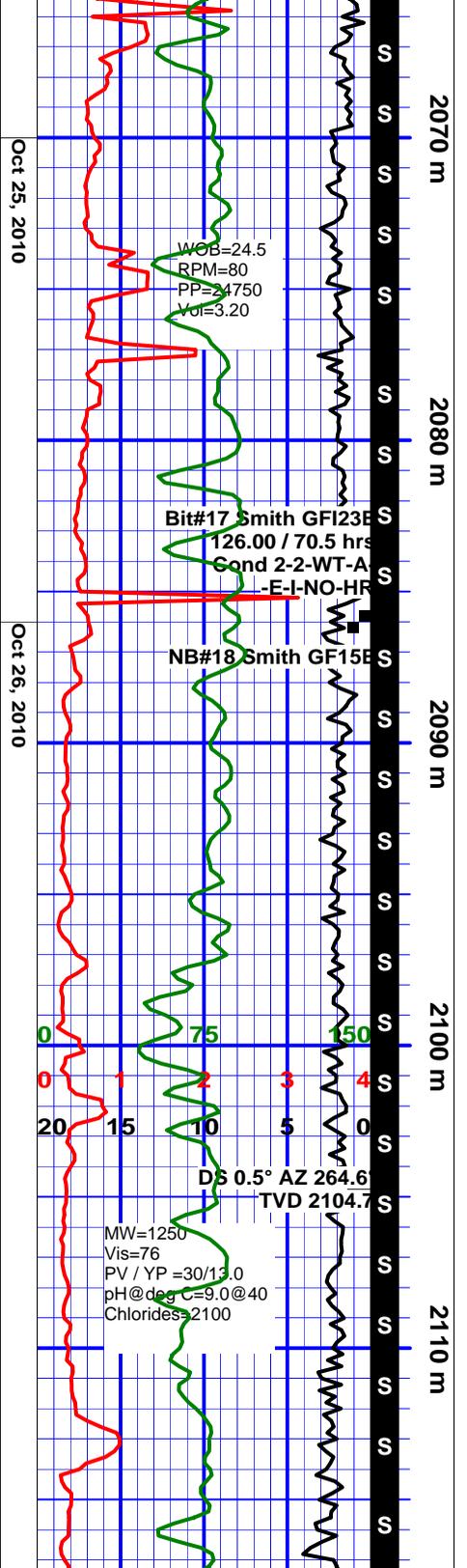


black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, silty, frequent micro micaceous, occasional carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

Shale: dark to medium gray, green gray, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous stringers, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

Shale: dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.

Sandstone: medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weak indurated, frequent friable with increase ROP, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace



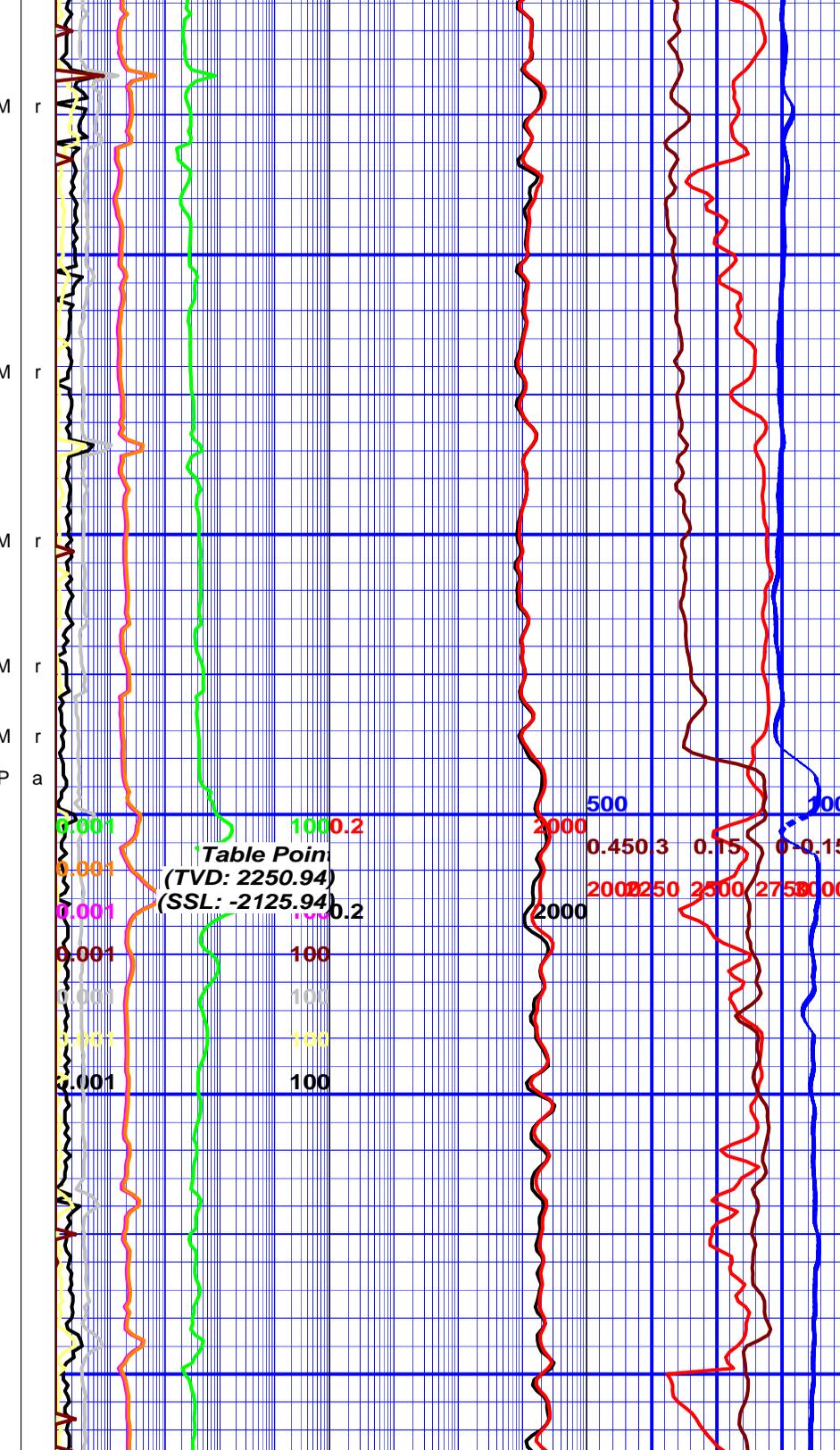
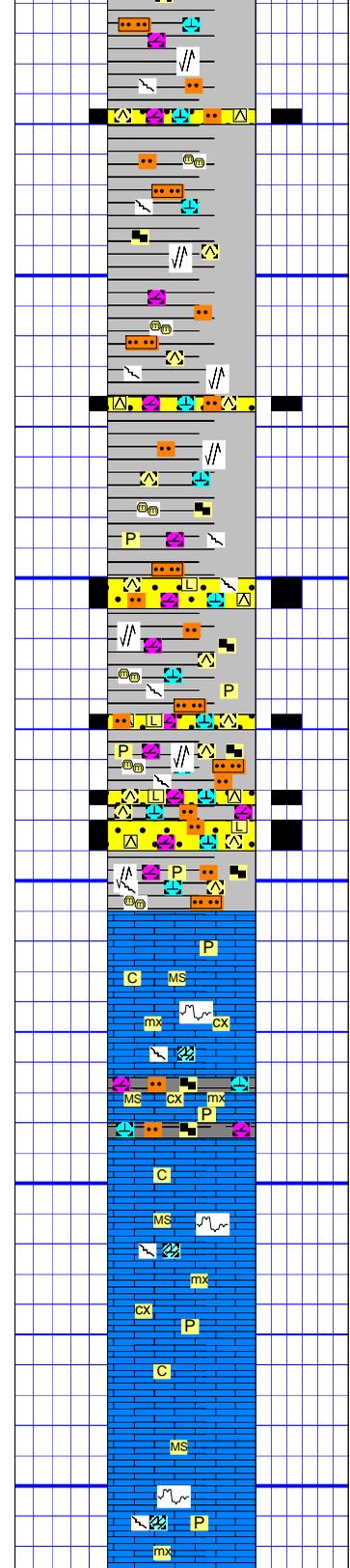
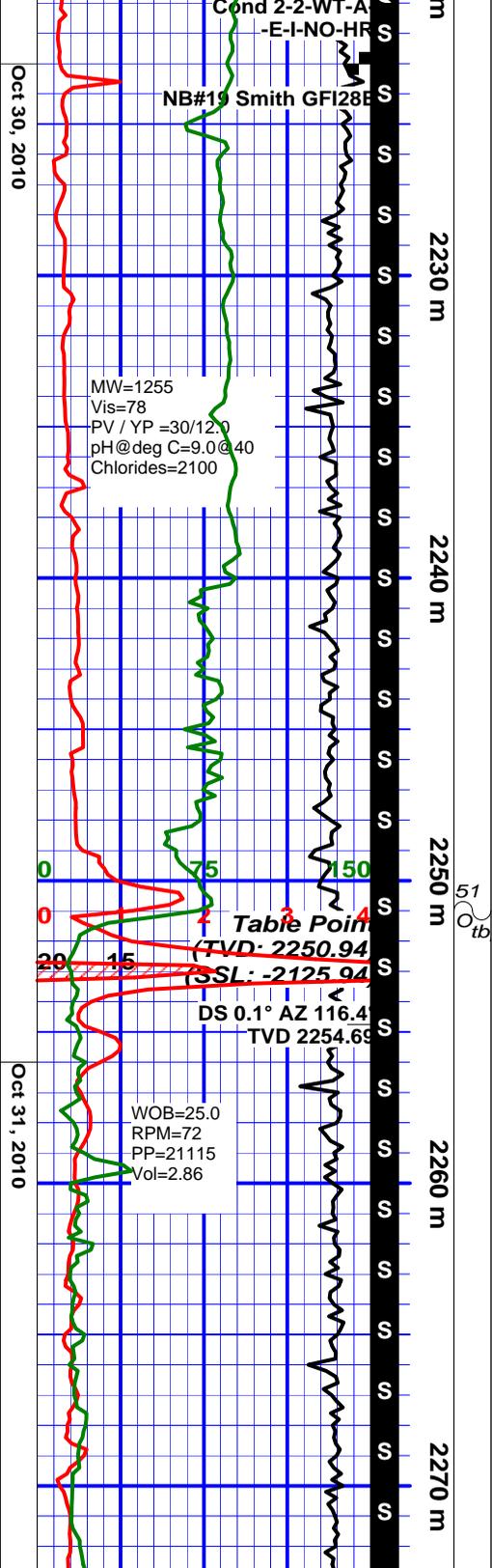
calcite, 3% to 12% intergranular porosity, no shows. (At 2058.0-2059.5m: TG=20.07%; C1=19.45%; C2=0.31%; C3=0.30%; C4=trace; C5=trace)

Sandstone: medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, minor medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, weak indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, lithic fragments & trace glauconite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

Shale: dark to medium gray, green gray, gray brown, firm to hard, frequent brittle, blocky to platy, hackly, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, occasional slickensided, grading to siltstone.

Sandstone: medium to light gray, speckled gray brown, off white, trace gray green, very fine to fine grained, frequent medium to coarse grain, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, very silty, frequent grains of feldspar, bronze mica, abundant lithic fragments & trace glauconite & chromite, minor disseminated pyrite, abundant fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

Shale: dark to medium gray, green gray, gray brown, trace black, firm to hard, frequent brittle, blocky to platy, hackly, elongated, in part siliceous, weak dolomitic & calcareous matrix, very silty, frequent micro micaceous, trace carbonaceous specks, abundant calcite filled fractures, frequent slickensided, grading to siltstone.



fine to fine grained, frequent medium to coarse grained, moderate to poorly sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows. **(Btm's up @ 2223m: POOH for new Bit.**

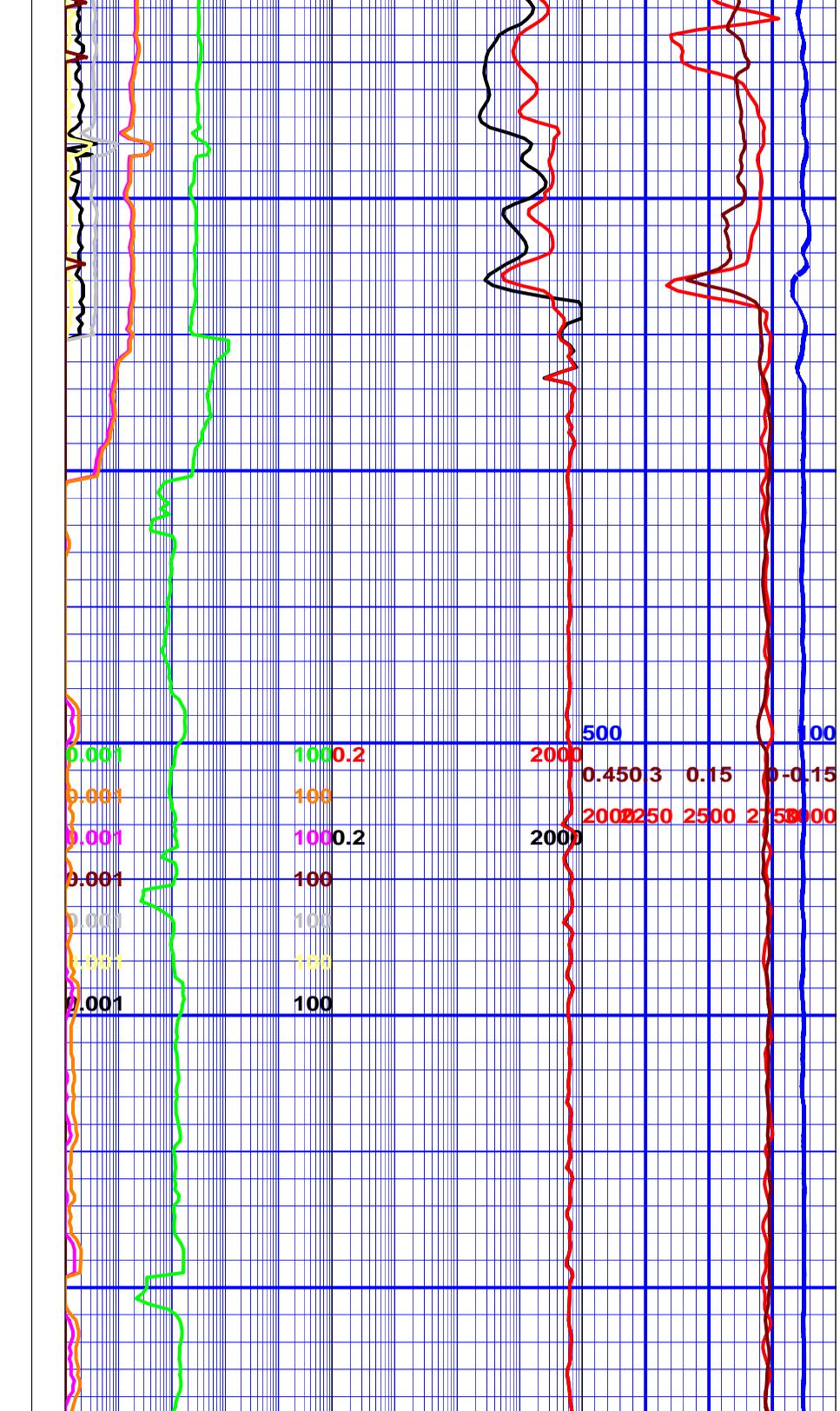
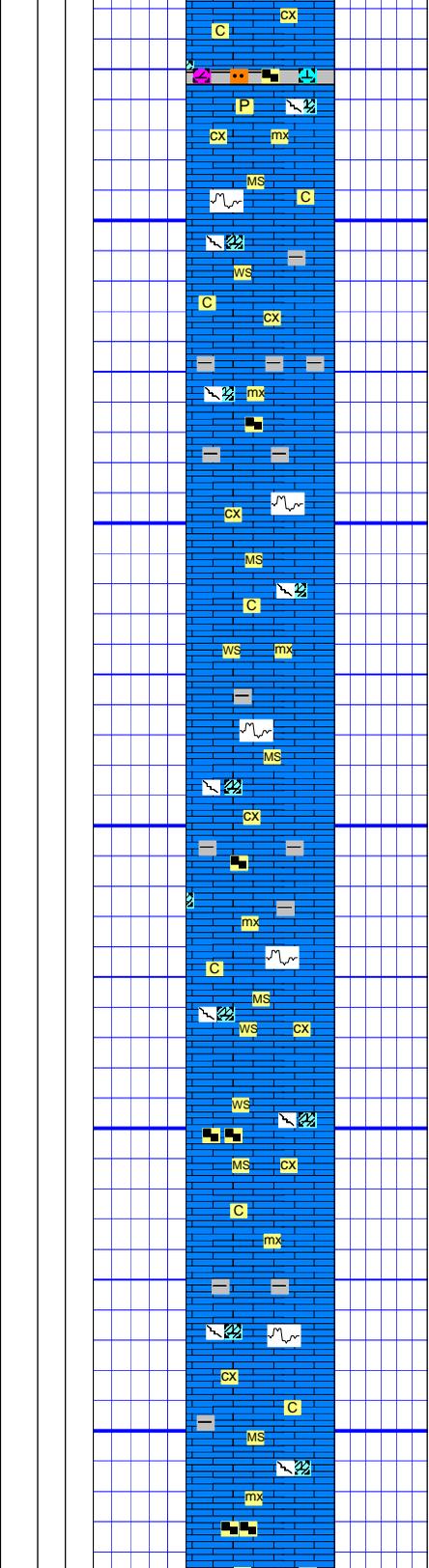
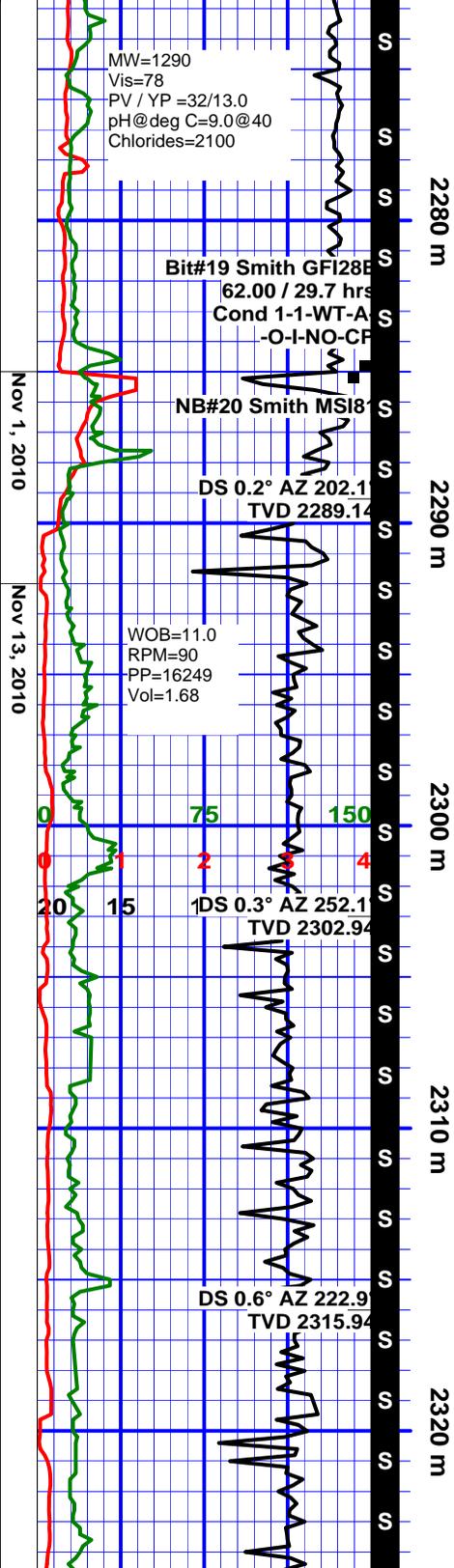
Shale: dark to medium gray, green gray, trace black, firm to hard, frequent brittle, blocky to platy, common fissile, hackly, in part siliceous, trace dolomitic & calcareous matrix, very silty, frequent micro micaceous, occasional carbonaceous stringers & white calcite filled fractures, abundant pyrite nodules, common slickensided, grading to siltstone.

Sandstone: medium to dark gray, speckled gray brown, off white, trace gray green, very fine to fine grained, trace medium to coarse grained, moderate sorted, subangular to subround, mainly quartz, consolidated with silica, dolomite & calcareous cement, firm to hard, indurated, occasional friable, silty, frequent grains of feldspar, bronze mica & lithic fragments, common fractures filled with white calcite, 3% to 8% intergranular porosity, no shows.

Limestone: white, buff, light brown, mudstone, massive, micro crystalline to cryptocrystalline, chalky, firm to hard, occasional stylolites, disseminated pyrite, fractures with abundant white calcite, tight, no shows.

Shale: dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.

Limestone: white, buff, light brown, mudstone, massive, micro crystalline to cryptocrystalline, chalky, firm to hard, occasional stylolites, disseminated pyrite, fractures with abundant white calcite, trace bitumen staining, tight, no shows.



Shale: dark gray, black, gray green, firm to hard, in part brittle, blocky to platy, slightly dolomitic & calcareous, silty, frequent carbonaceous specks.

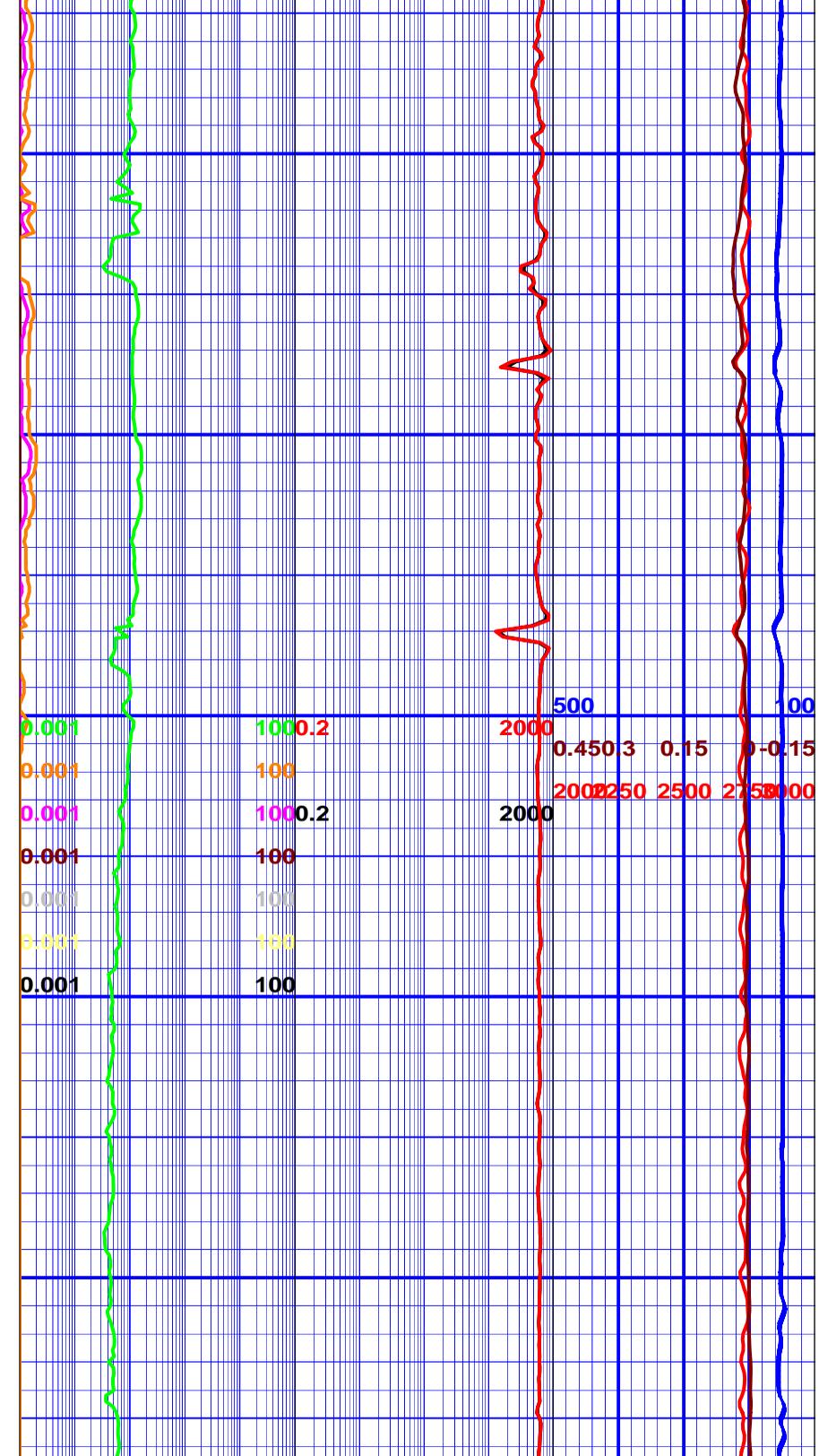
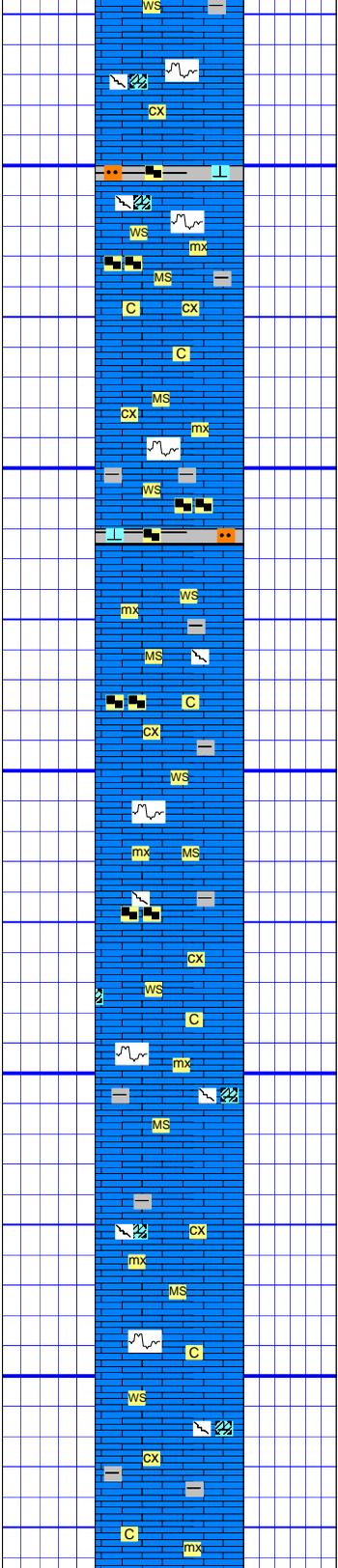
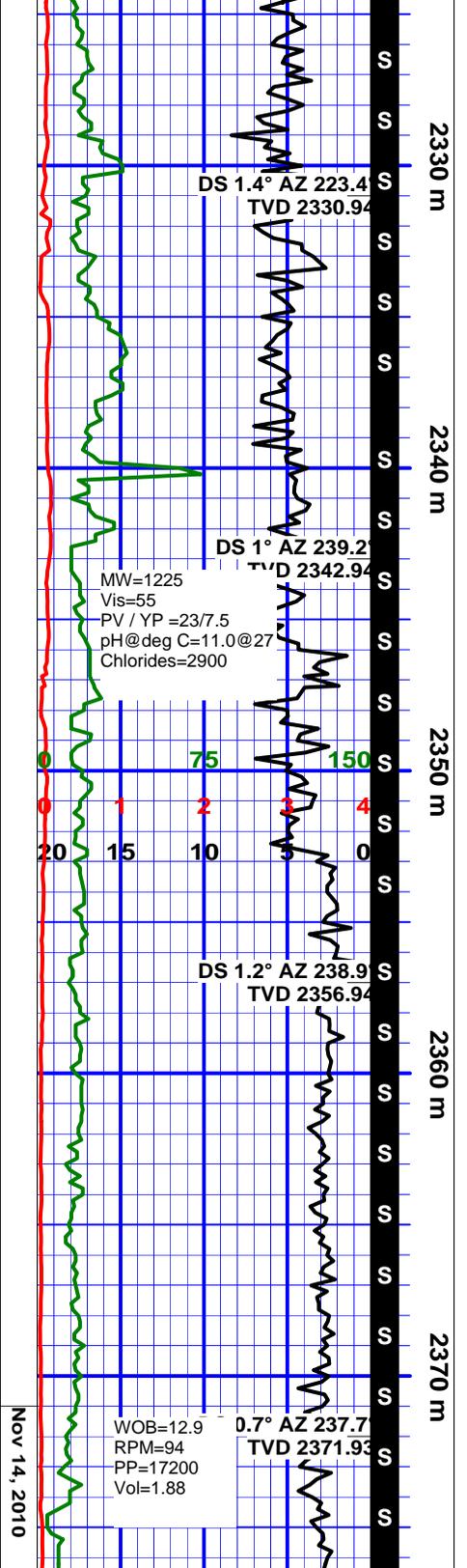
Limestone: white, buff, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, frequent stylolites, trace carbonaceous specks, slightly argillaceous, abundant fractures filled with white calcite, trace bitumen staining, tight, no shows. **(POOH at 2285m to Wireline Log & run 244mm Intermediate Casing @ 2276m)**

Wireline Logging @ 2280m to 570m.
Run#1: Resistivity Imager-XMAC-GR-6 Arm Caliper.
Run#2: SP-HDIL-2ZDEN-PE-CNC-CALXY-Resistivity Image
Run#3: RCI-GR
Run#4: RCOR (33 Cores)
Run#5: VSP

Limestone: buff, white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, trace stylolites, occasional carbonaceous specks, slightly argillaceous, common fractures filled with white calcite, trace bitumen staining, tight, no shows

Limestone: buff, white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, common chalky, trace stylolites, occasional carbonaceous specks, slightly argillaceous, common fractures filled with white calcite, trace bitumen staining, tight, no shows

Limestone: buff, off white, mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, frequent chalky, occasional stylolites, frequent carbonaceous stringers, slightly argillaceous, common fractures filled



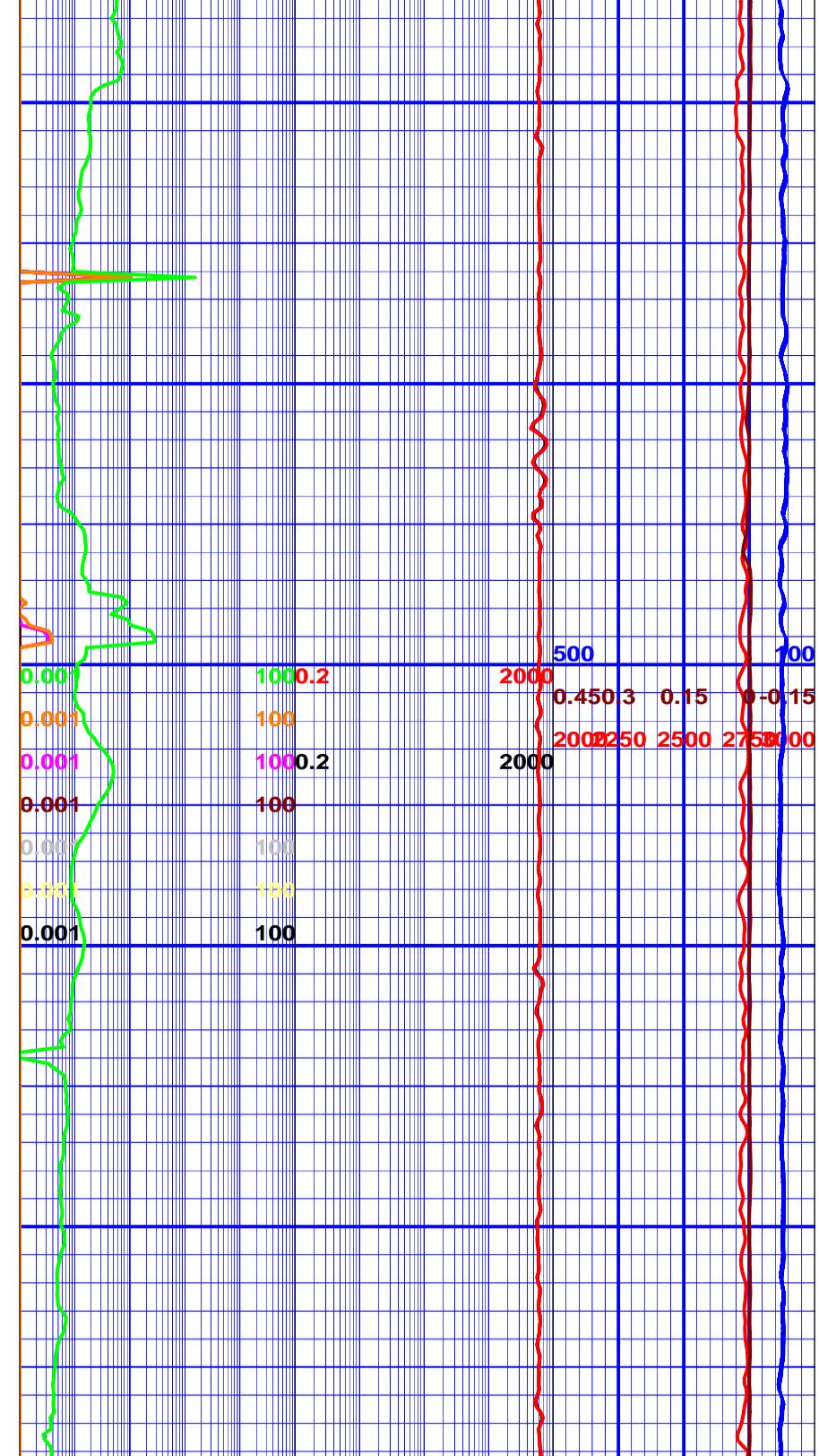
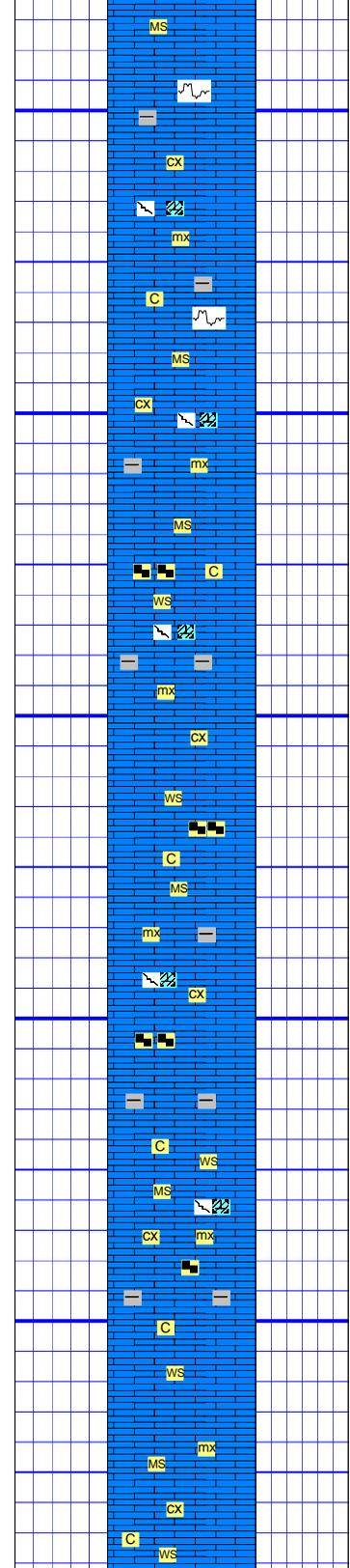
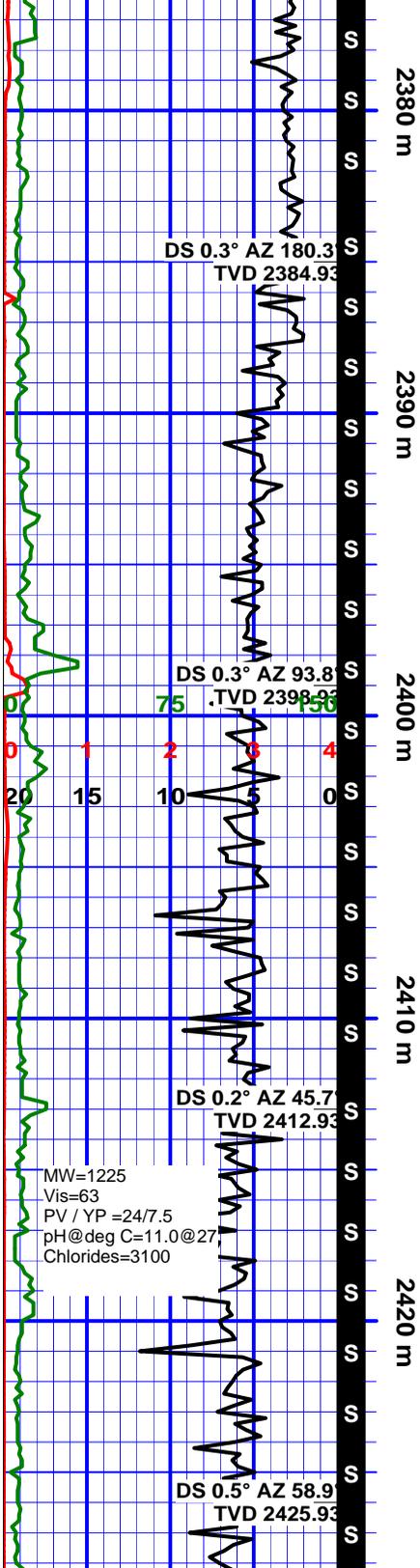
with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

Shale: dark gray, black, firm to hard, in part brittle, platy, silty, slightly calcareous, frequent carbonaceous specks.

Shale: dark gray, black, firm to hard, in part brittle, platy, silty, slightly calcareous, frequent carbonaceous specks.

Limestone: mottled light - dark brown, buff, off white, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, occasional chalky, occasional stylolites, frequent carbonaceous stringers, common argillaceous, occasional fractures filled with white & clear calcite, trace bitumen staining, no visible porosity, no shows.

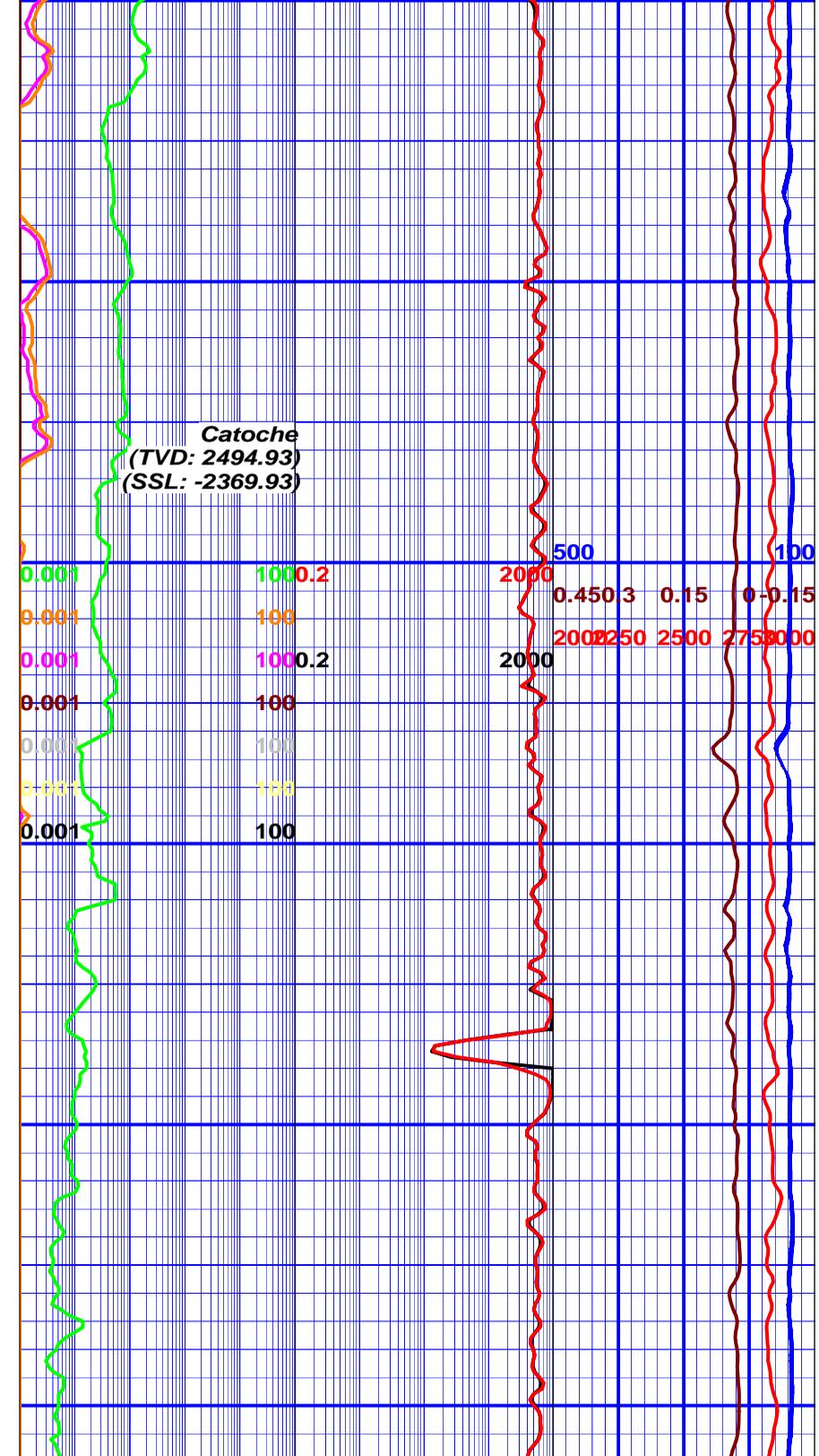
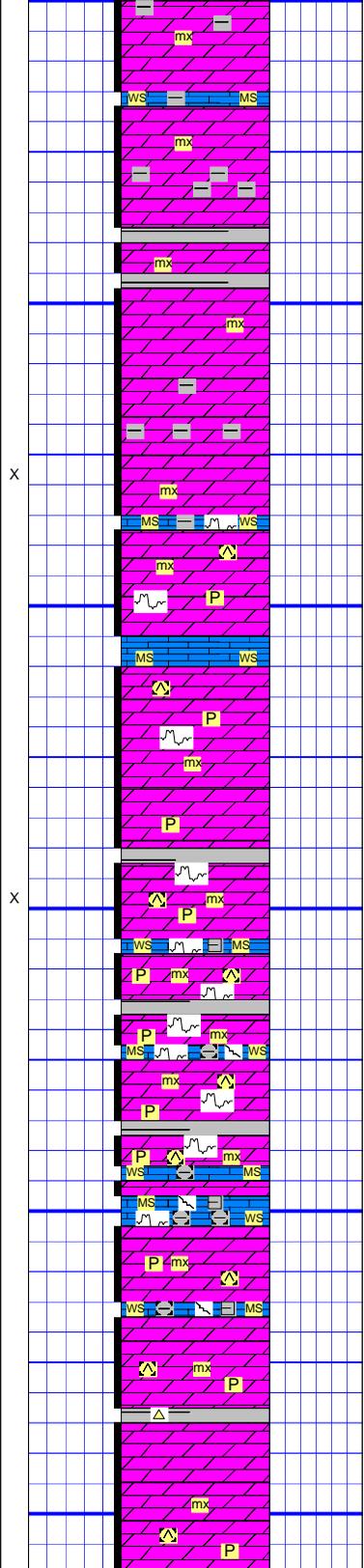
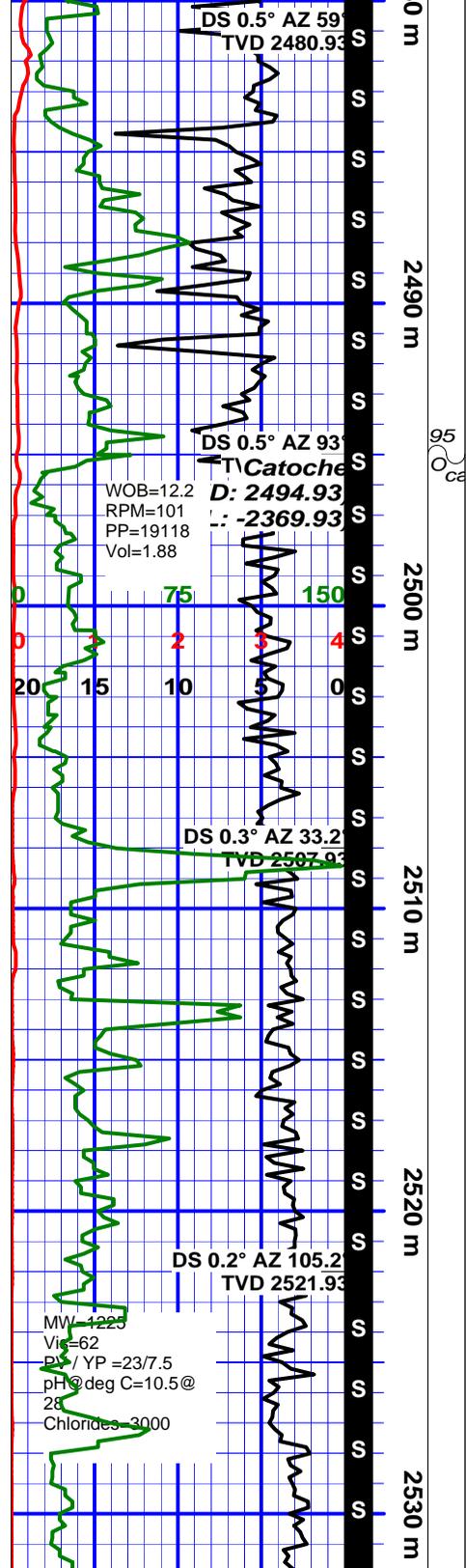
Limestone: buff, off white, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace stylolites, minor argillaceous, occasional fractures filled with white & clear calcite, trace bitumen staining & fine disseminated pyrite, no visible porosity, no shows.



Limestone: white, buff, off white, mottled light gray, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, abundant chalky, trace stylolites, minor argillaceous, trace fractures filled with white & clear calcite, occasional bitumen staining, no visible porosity, no shows.

Limestone: buff, off white, occasional mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, frequent chalky, trace carbonaceous stringers, slightly argillaceous, minor fractures filled with white & clear calcite, occasional bitumen staining, no visible porosity, no shows.

Limestone: white, buff, off white, occasional mottled light - dark brown, mudstone to wackestone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part brittle, abundant chalky, trace carbonaceous specks, slightly argillaceous, trace bitumen staining, no visible porosity, no shows.



Dolomite: light brown, off white, buff, micro crystalline to fine crystalline, massive, granular, trace recrystallization, occasional sucrosic, firm to hard, in part brittle, blocky to platy, frequent argillaceous, trace bitumen staining, poor intercrystalline porosity, no shows.

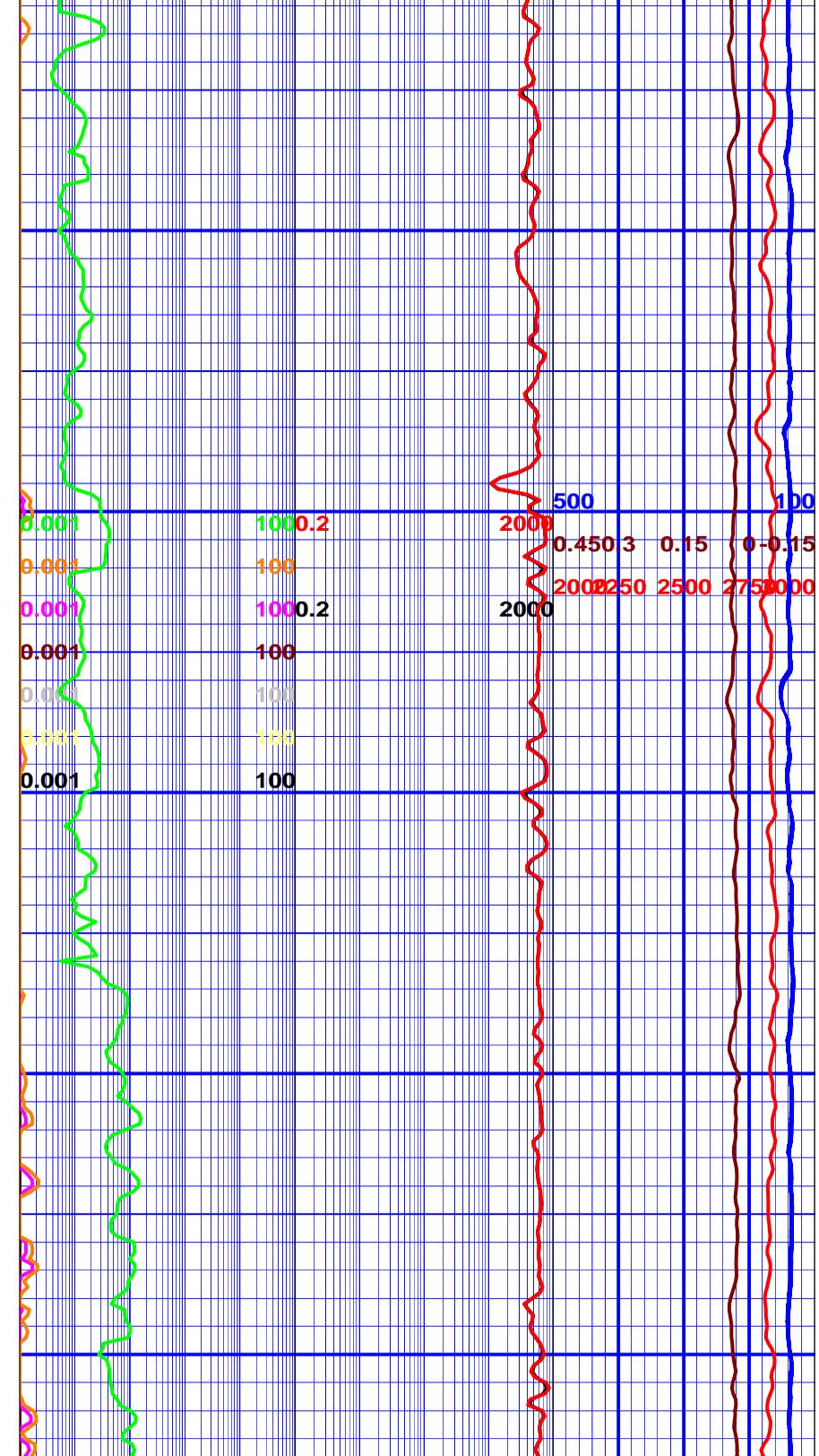
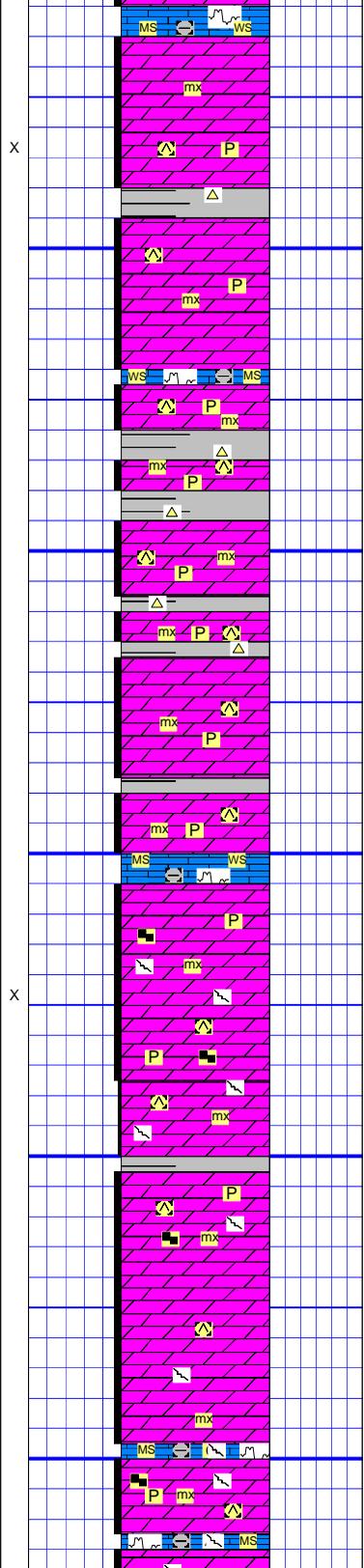
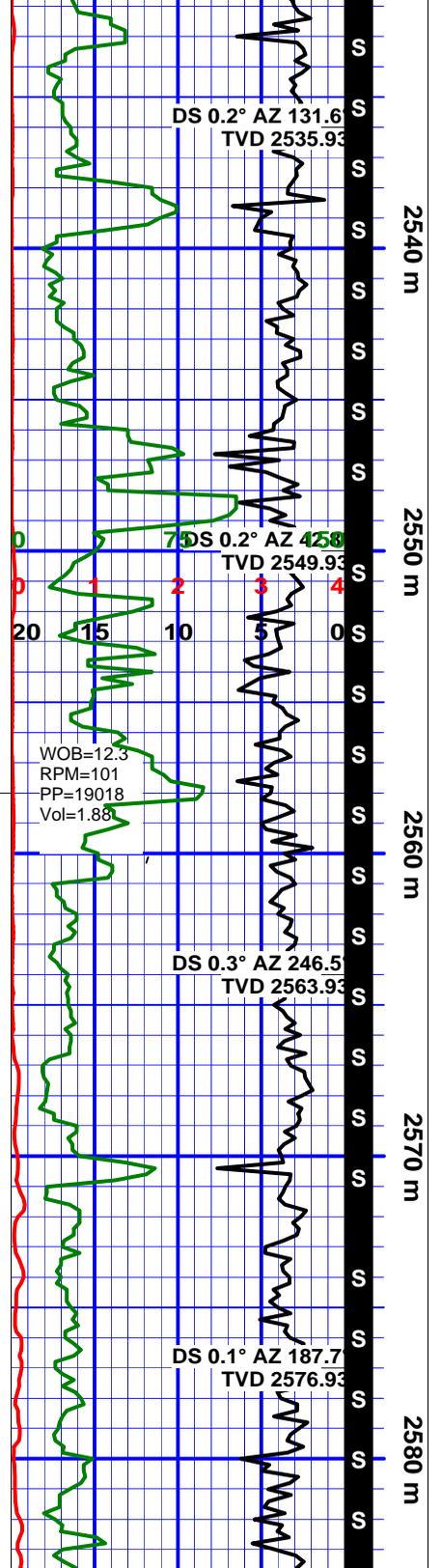
Dolomite: buff, off white, cream, light brown, micro crystalline to fine crystalline, frequent coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, slightly siliceous, blocky to platy, minor fine disseminated pyrite, occasional stylolites infilled with bitumen, poor intercrystalline porosity, no shows.

Shale: light gray green, firm to hard, blocky to platy, non calcareous.

Limestone: gray brown, dark gray, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, very argillaceous, trace clear calcite veining, trace gray green shale, no visible porosity, no shows.

Dolomite: buff, off white, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

Nov 16, 2010



Limestone: white, gray brown, cream, mudstone to wackestone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, no visible porosity, no shows.

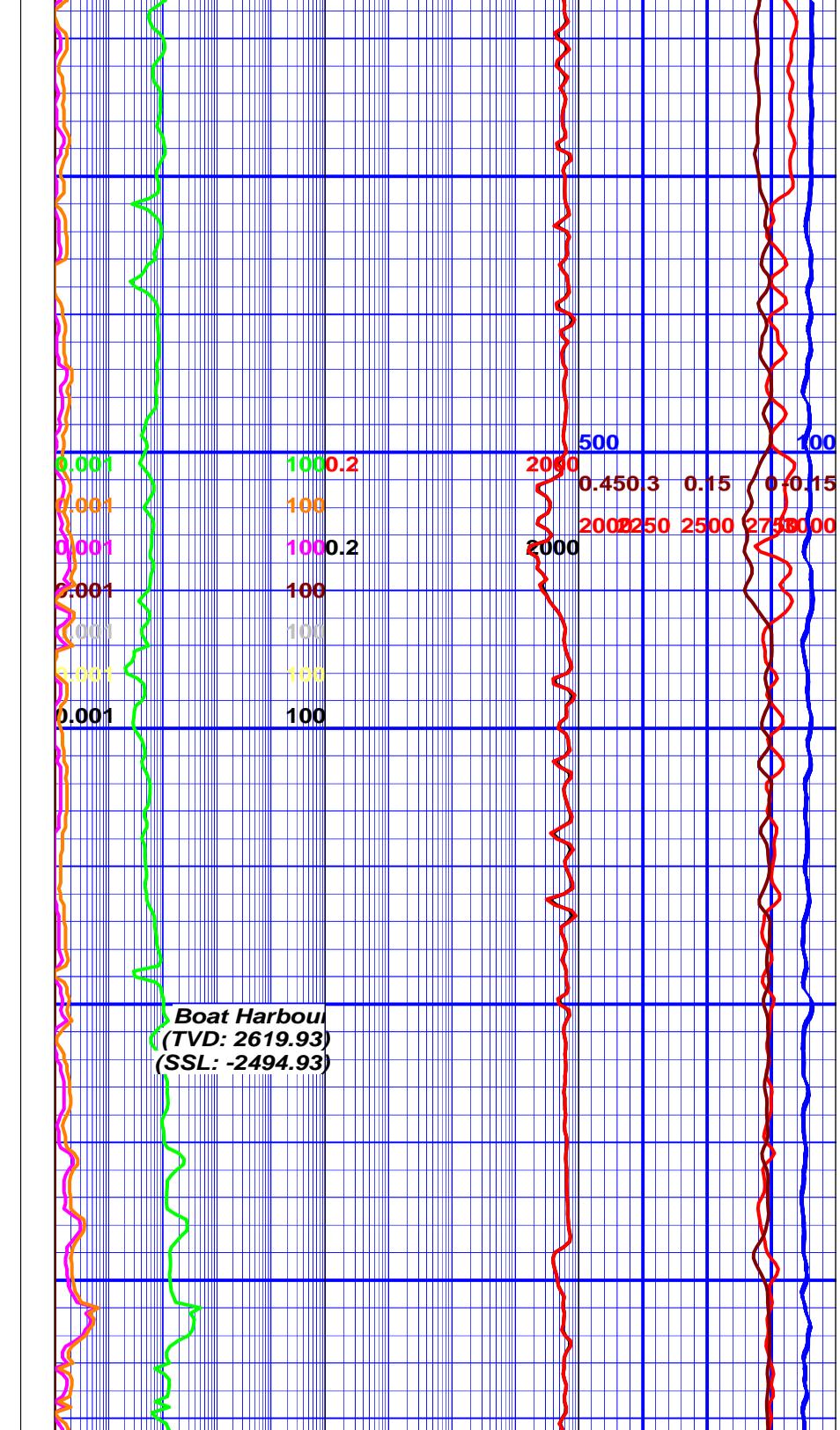
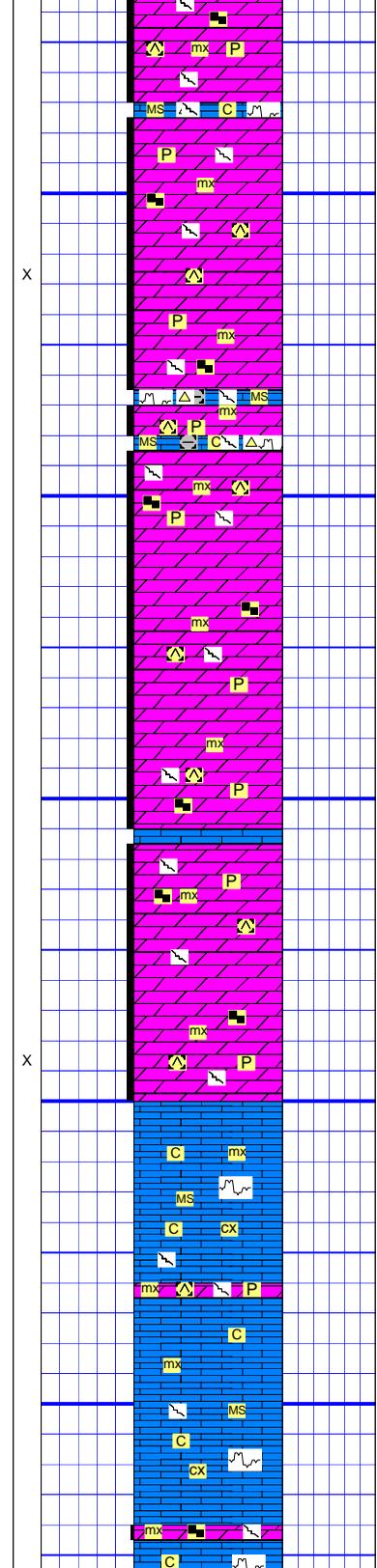
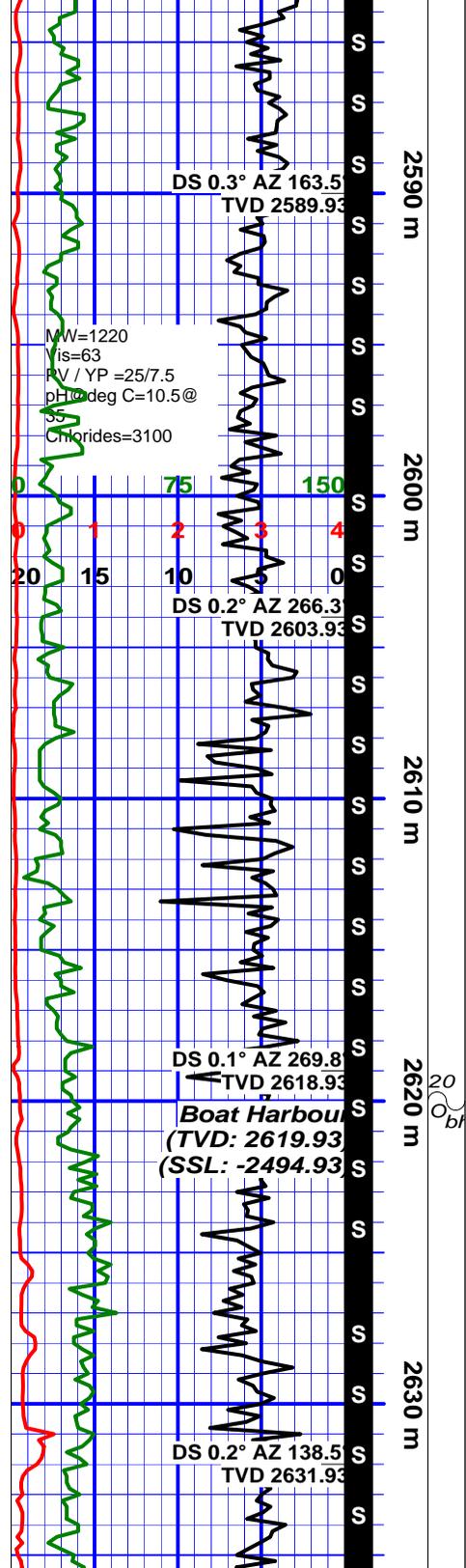
Shale: light to medium gray, firm to hard, blocky to platy, non calcareous, trace light brown chert.

Shale: light to medium gray, firm to hard, blocky to platy, non calcareous, trace light brown chert.

Dolomite: white, buff, cream, light brown, micro crystalline to fine crystalline, trace coarse crystalline, massive, granular, common recrystallization, trace sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

Dolomite: mottled medium to dark brown, off white, micro crystalline to crystalline, frequent coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, in part brittle, frequent siliceous matrix, blocky to platy, minor fine disseminated pyrite, occasional carbonaceous matter, frequent veining with clear rhombic crystals, trace bitumen staining, poor intercrystalline porosity, no shows.

Limestone: white, gray brown, cream, mudstone, massive, firm to hard, brittle, occasional stylolites, argillaceous, trace clear calcite veining, chalky, trace light brown chert, no visible porosity, no shows.

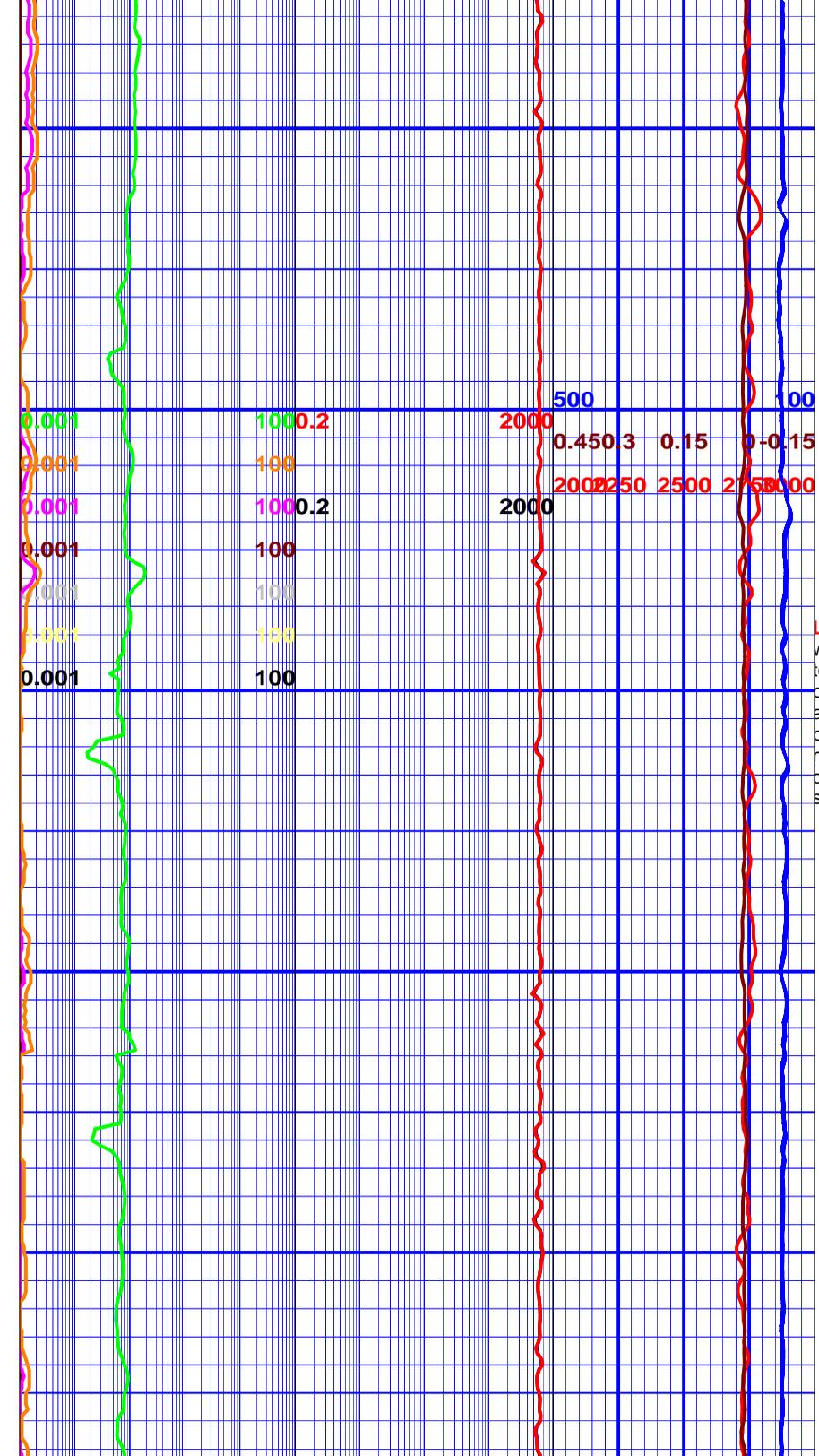
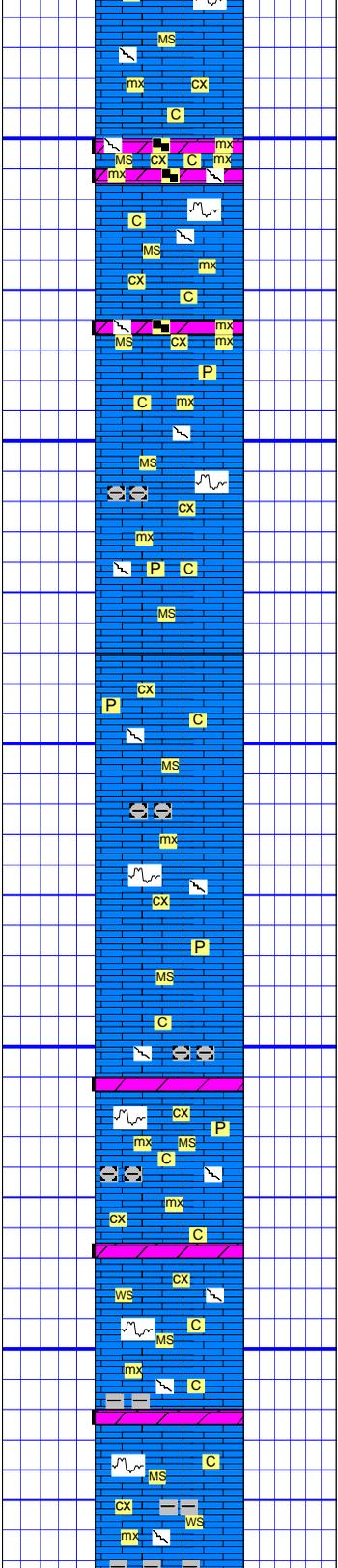
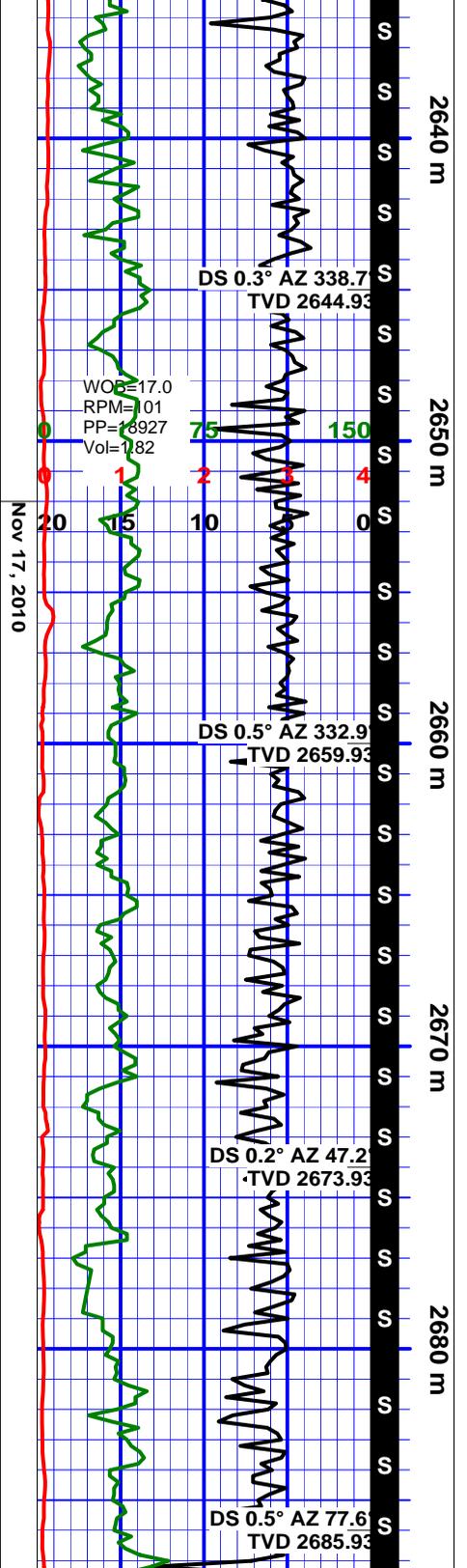


Dolomite: mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, abundant sucrosic texture, firm to hard, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite + trace nodular pyrite, occasional veining with clear dolo- rhombic crystals, common carbonaceous matter, occasional bitumen staining, poor intercrystalline porosity, no shows.

Dolomite: mottled medium to dark brown, off white, cream, micro crystalline to crystalline, abundant coarse crystalline, massive, granular, common recrystallization, frequent sucrosic texture, firm to hard, in part brittle, occasional siliceous matrix, blocky to platy, minor fine disseminated pyrite, frequent fractures infilled with abundant clear & white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

Limestone: off white, buff, mottled light brown, mudstone, microcrystalline to cryptocrystalline, soft to firm, friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, no visible porosity, no shows.

Dolomite: mottled medium to dark brown, off white, cream, micro crystalline to crystalline,



massive, granular, common recrystallization, occasional sucrosic texture, firm to hard, in part brittle, blocky to platy, occasional fractures infilled with white dolo- rhombic crystals, common carbonaceous matter, trace bitumen staining, poor intercrystalline porosity, no shows

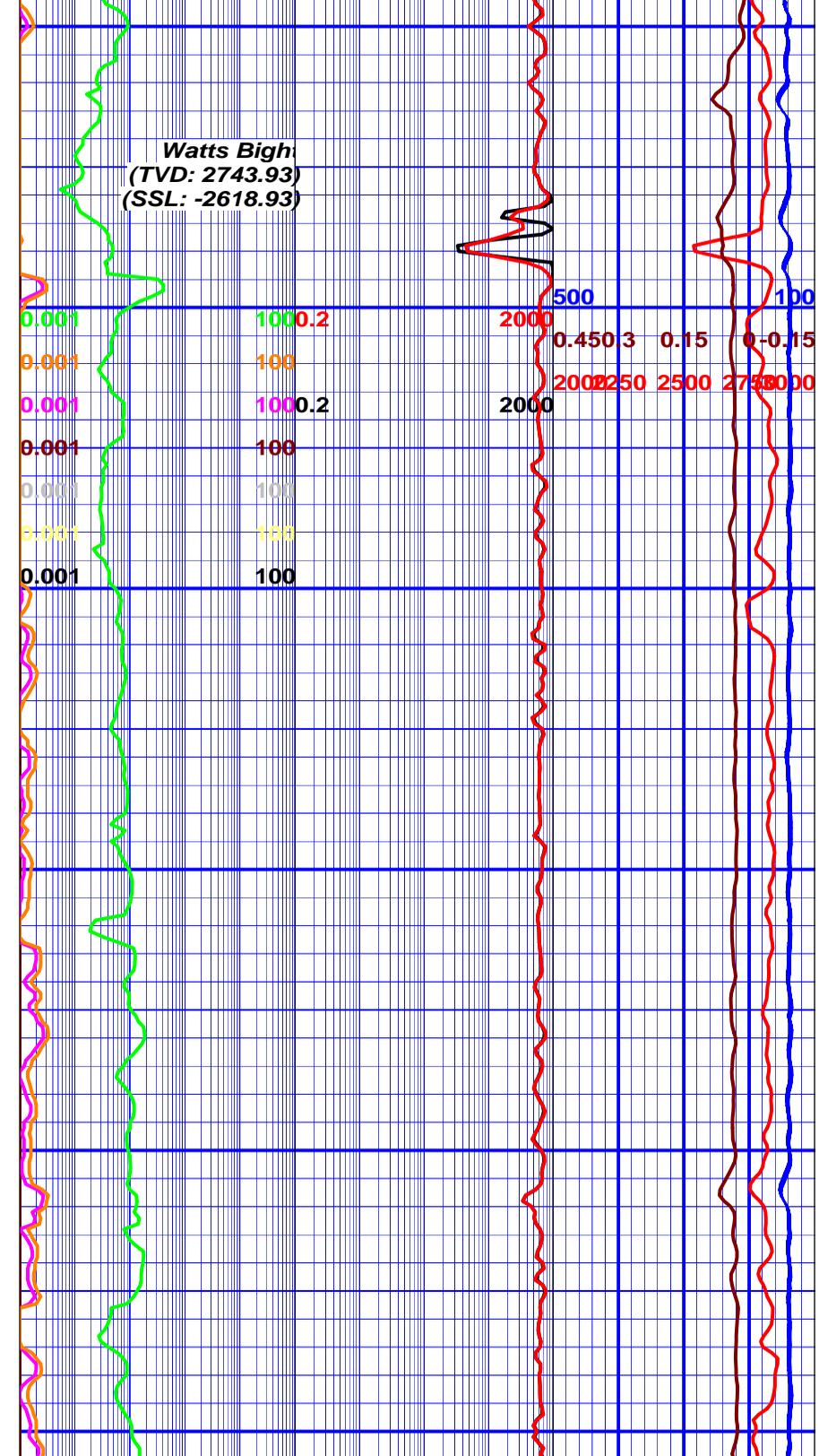
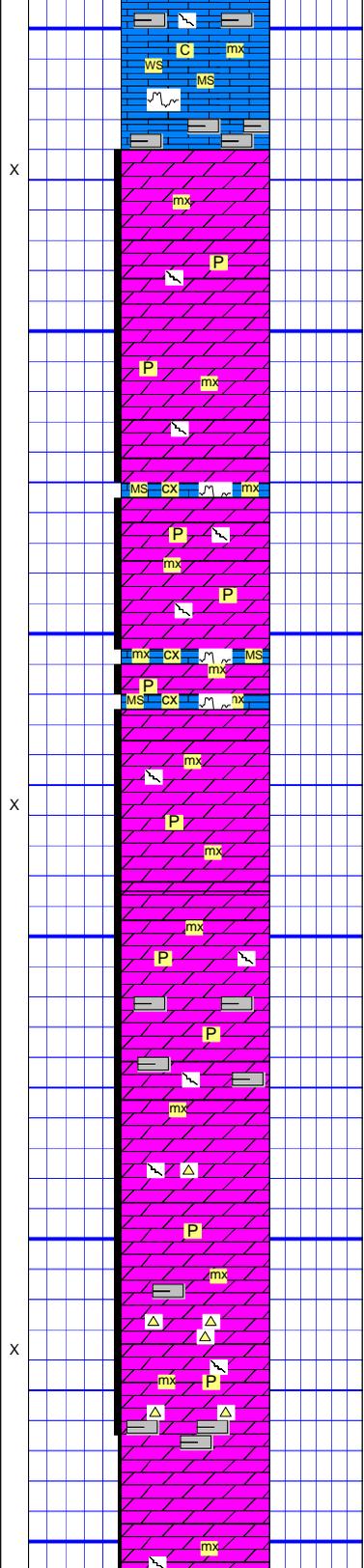
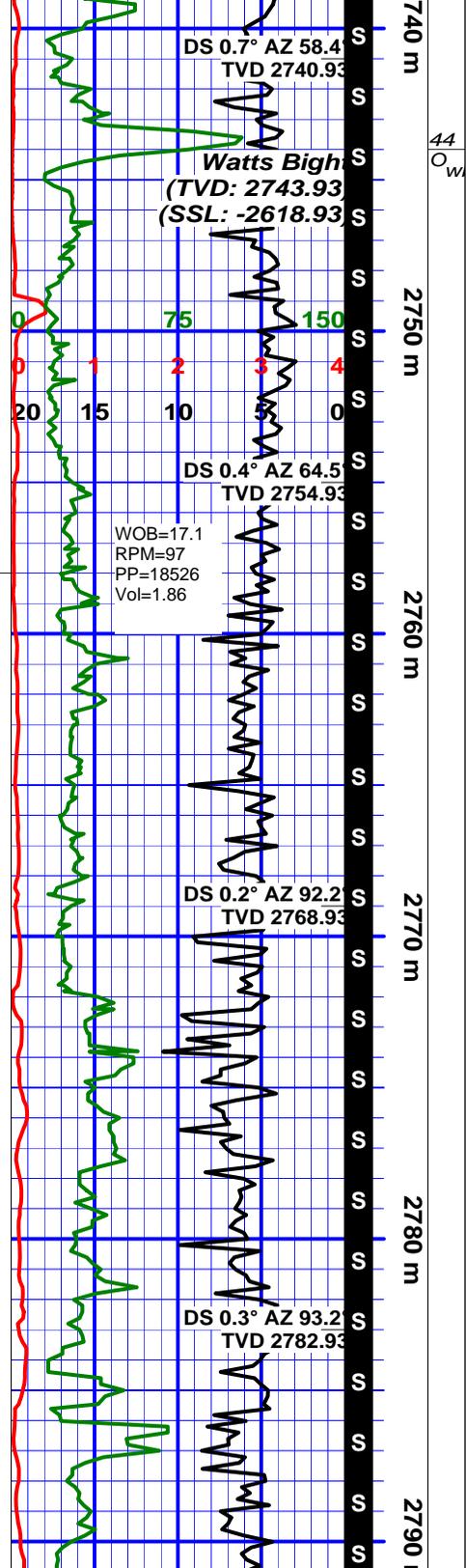
Limestone: off white, buff, mottled light brown, mudstone, microcrystalline to cryptocrystalline, firm to hard, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, no visible porosity, no shows.

Limestone: medium to light brown, cream, off white, dark brown mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, no visible porosity, no shows.

Limestone: medium to light brown, cream, off white, dark brown mudstone, microcrystalline to cryptocrystalline, massive, firm to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, trace stylolitic with bitumen staining, occasional calcite veining, minor dark argillaceous bands, trace fine disseminated pyrite, minor carbonaceous shale laminae, no visible porosity, no shows.

Dolomite: dark brown, firm to hard, in part brittle, fine crystalline, platy, slightly sucrosic, poor intercrystalline porosity, no shows.

Nov 18, 2010



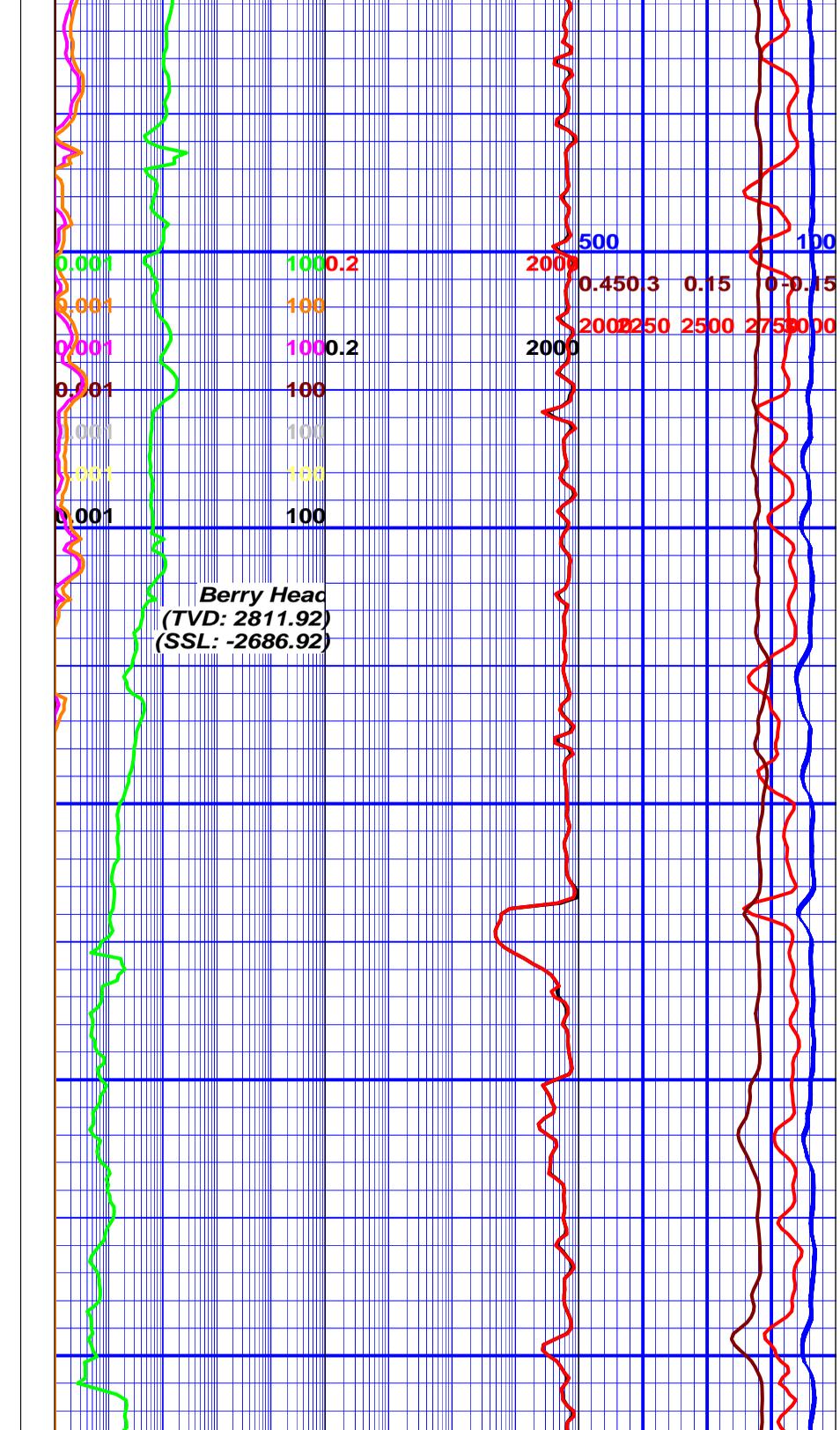
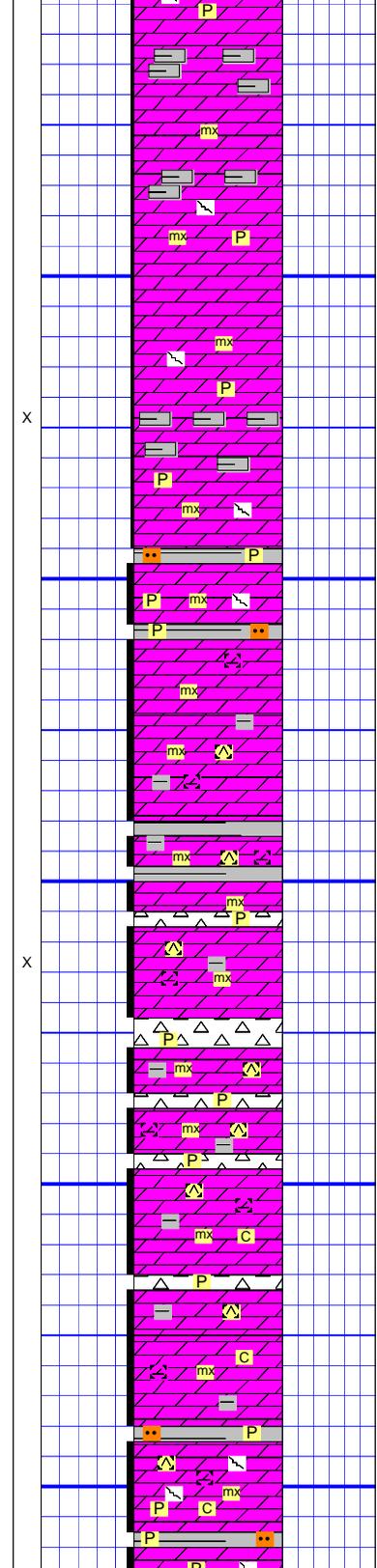
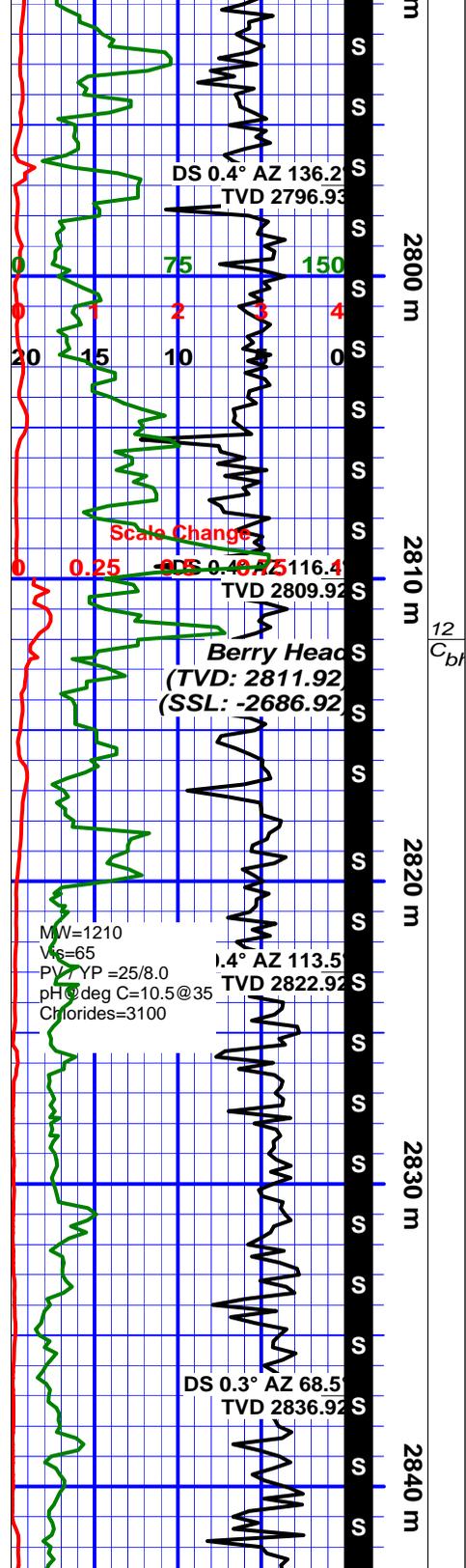
soft to hard, in part brittle, platy to blocky, frequent friable, abundant white chalky, occasional stylolitic with bitumen staining, common calcite veining, frequent dark argillaceous bands, frequent dark gray shale laminae, no visible porosity, no shows.

Dolomite: light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, occasional sub sucrosic texture, frequent evidence of recrystallization, abundant veining with frequent coarse white dolo-rhombic aggregate, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, trace bitumen staining, poor intercrystalline porosity, no shows.

Limestone: white, buff, medium to light brown, mudstone, micro crystalline to cryptocrystalline, micritic, firm to hard, in part friable, platy, stylolitic, no visible porosity, no shows.

Dolomite: light brown, buff, cream, off white, micro crystalline to coarse crystalline, massive, minor sub sucrosic text, frequent evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy, in part friable, occasional fine disseminated pyrite, occasional dark gray shale laminae, trace bitumen staining, poor intercrystalline porosity, no shows.

Dolomite: light - dark brown, buff, cream, off white, micro crystalline to abundant coarse crystalline, massive, minor sub sucrosic text, abundant evidence of recrystallization, veining with abundant coarse white dolo-rhombic aggregates, hard to firm, brittle, platy to sub angular, in part friable, occasional fine disseminated pyrite, trace bitumen staining, common dark gray shale laminae, frequent light brown chert, poor intercrystalline porosity, no shows.



Dolomite: light - medium brown, buff, cream, off white, micro crystalline to fine crystalline, trace coarse crystalline, massive, occasional sub sucrosic text, abundant evidence of recrystallization, veining with occasional coarse white dolo-rhombic aggregates, hard to firm, brittle, cemented with dolosparite, platy to sub angular, in part friable, trace fine disseminated pyrite, abundant gray green shale laminae, trace bitumen staining, poor intercrystalline porosity, no shows.

Shale: dark gray brown, gray green, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

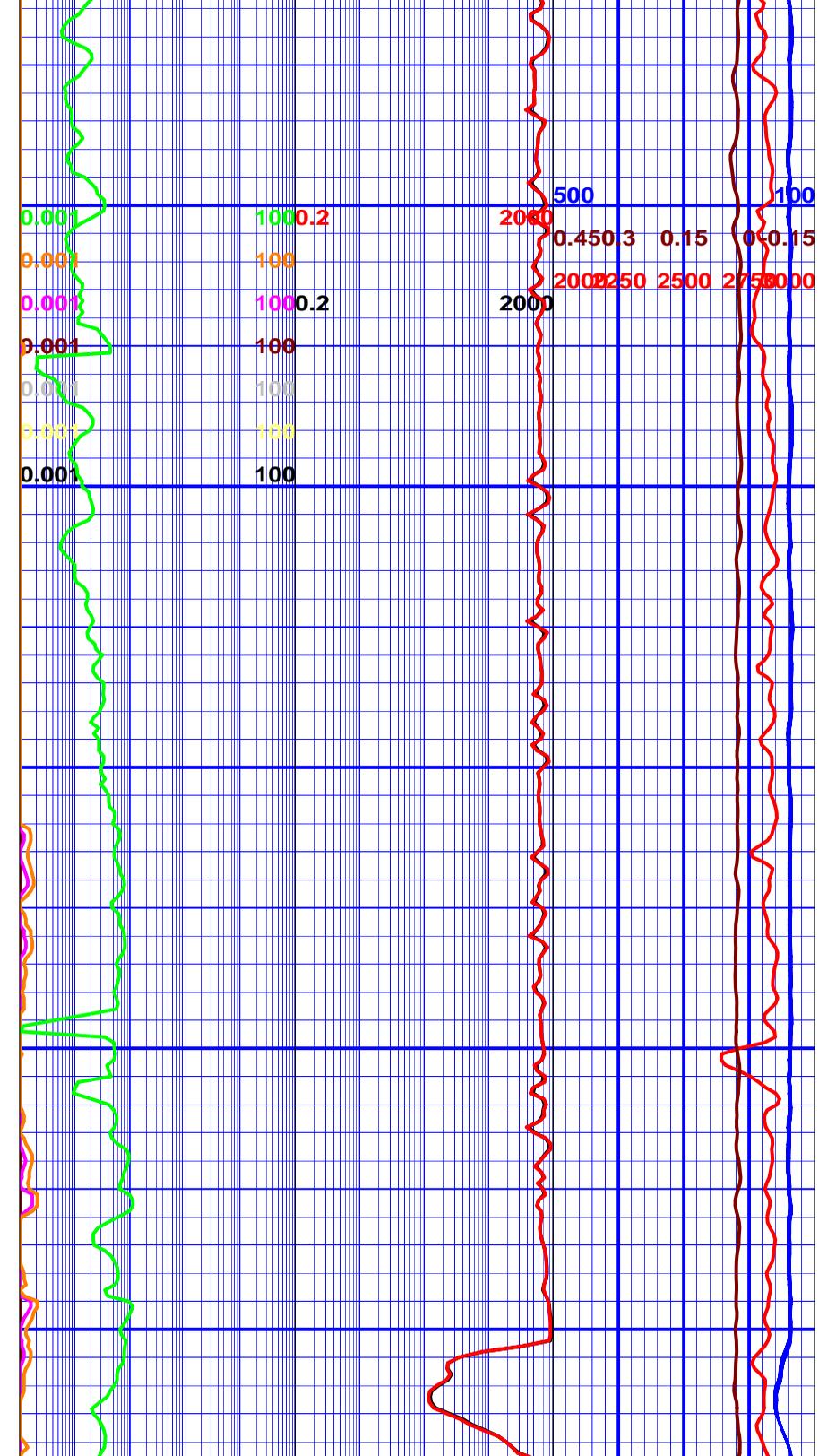
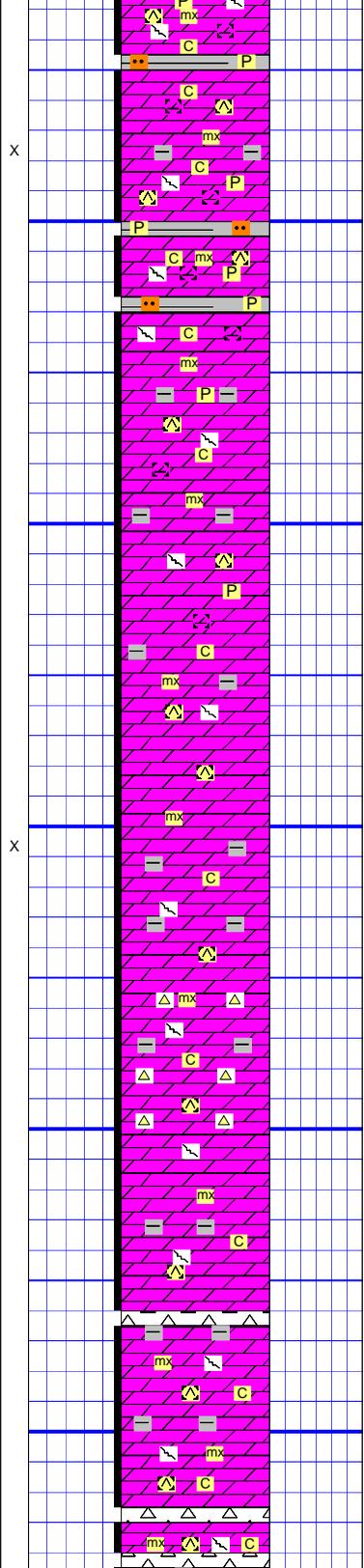
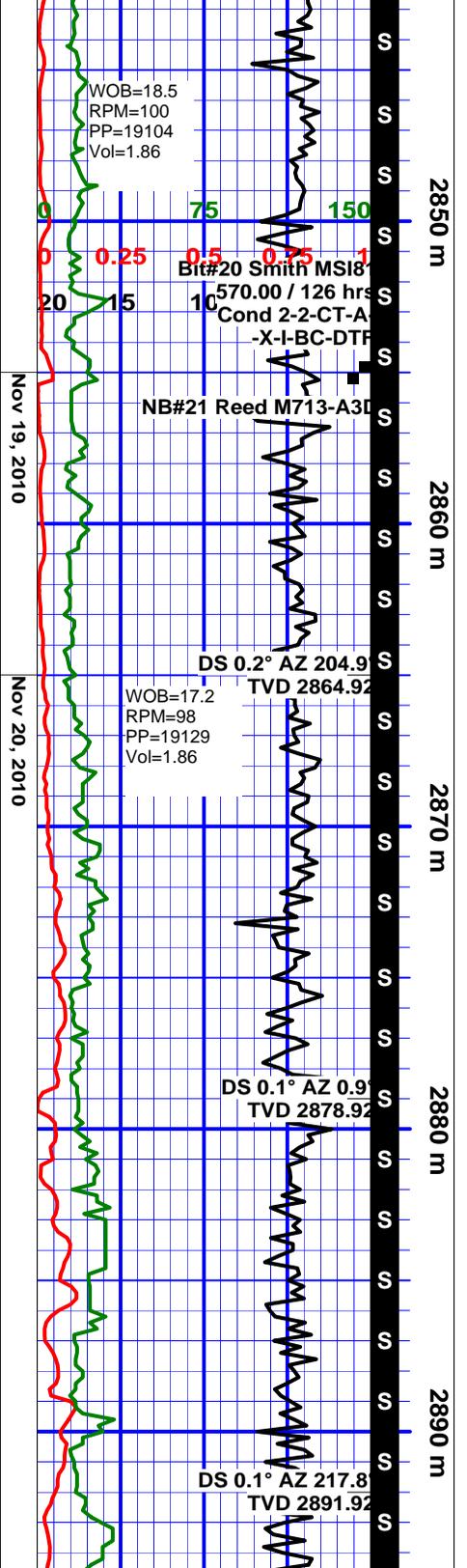
Dolomite: off white, buff, white, micro crystalline - fine crystalline, massive, common sucrosic texture, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, occasional friable, argillaceous, frequent relic texture of original limestone, trace bitm staining, poor intercrystalline, porosity, no shows.

Shale: dark gray brown, gray green, subfissile to blocky, elongate, hard to firm, silty, trace disseminated pyrite, non calcareous,

Chert: light brown, pale white, light - dark gray, very hard, conchoidal, trace fine disseminated pyrite.

Dolomite: off white, buff, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, trace sucrosic texture, very hard to firm, frequent silica & dolosparite cemented, in part brittle, platy to blocky, minor friable, abundant white chalky, argillaceous, trace bitumen staining, poor intercrystalline, porosity, no shows. (Abundant white rock flour: Poor sample quality)

Shale: dark gray brown, subfissile to blocky, elongate, hard to firm, silty, trace disseminated

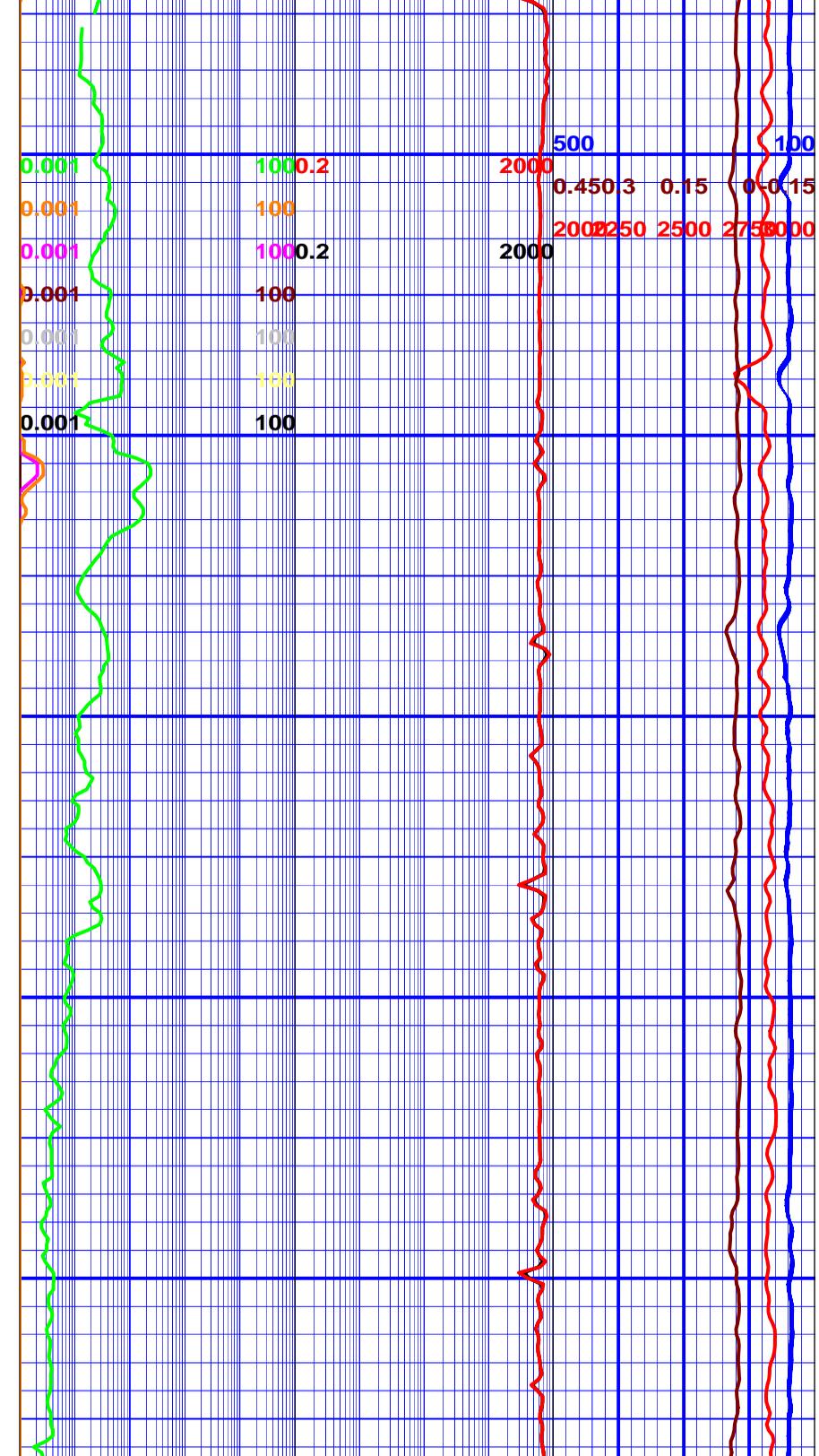
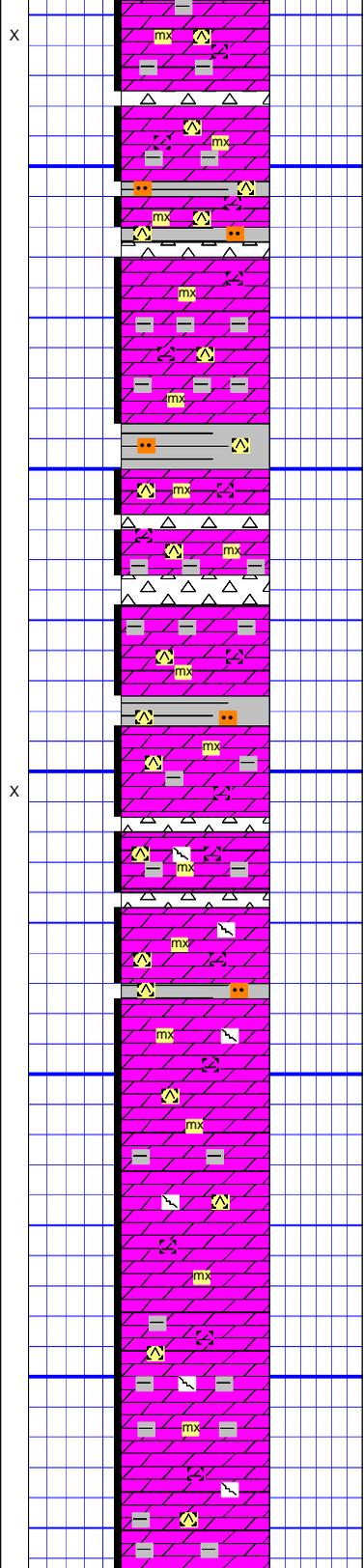
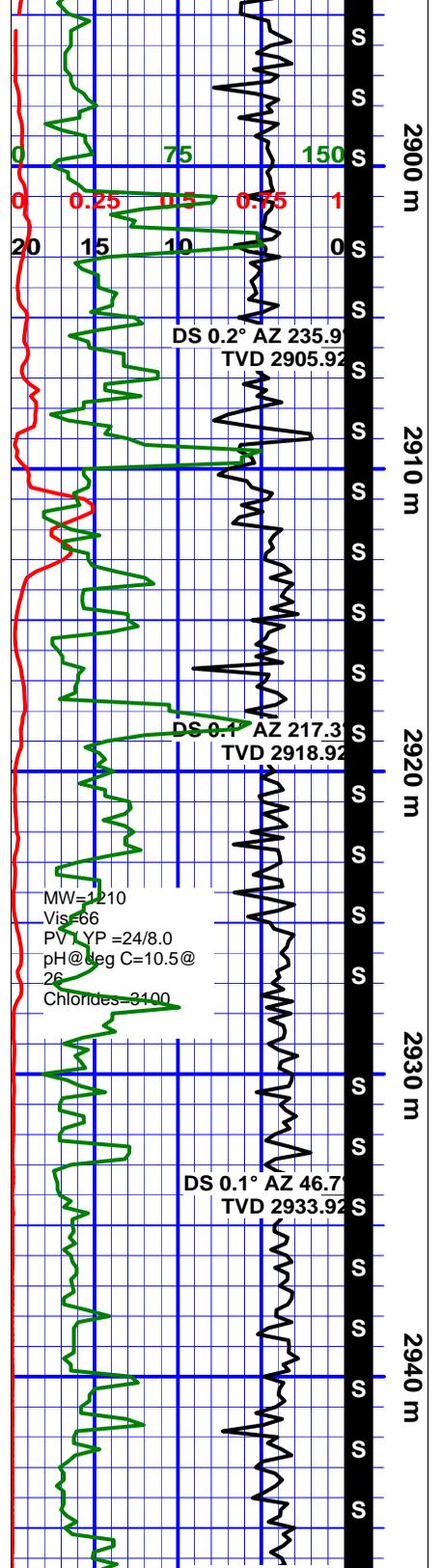


Dolomite: white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, abundant sucrosic texture, frequent fractures with coarse white dolo- rhombic aggregates, hard to firm, in part very friable, frequent dolosparite cement, common siliceous, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace fine disseminated pyrite, trace bitumen staining, poor to fair intercrystalline, porosity, no shows. **(POOH to change MWD Tools, VertiTrak& new Bit.)**

Dolomite: white, buff, off white, light brown, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, frequent fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent dolosparite cemented, common siliceous, in part brittle, platy to blocky, abundant white chalky, argillaceous, trace bitumen staining & light brown chert, poor to fair intercrystalline, porosity, no shows.

Dolomite: light - dark brown, white, buff, off white, micro crystalline - fine crystalline, abundant coarse crystalline, massive, occasional sucrosic texture, common fractures with coarse white dolo- rhombic aggregates, hard to firm, in part friable, frequent cemented with dolosparite, common siliceous, in part brittle, platy to blocky, abundant white chalky, common argillaceous, trace bitumen staining & light brown chert, poor intercrystalline, porosity, no shows.

Chert: light - dark brown, pale white, light - dark gray, very hard, conchoidal.



Shale: dark gray brown, subfissile to blocky, elongate, hard to firm, silty, slightly siliceous, non calcareous.

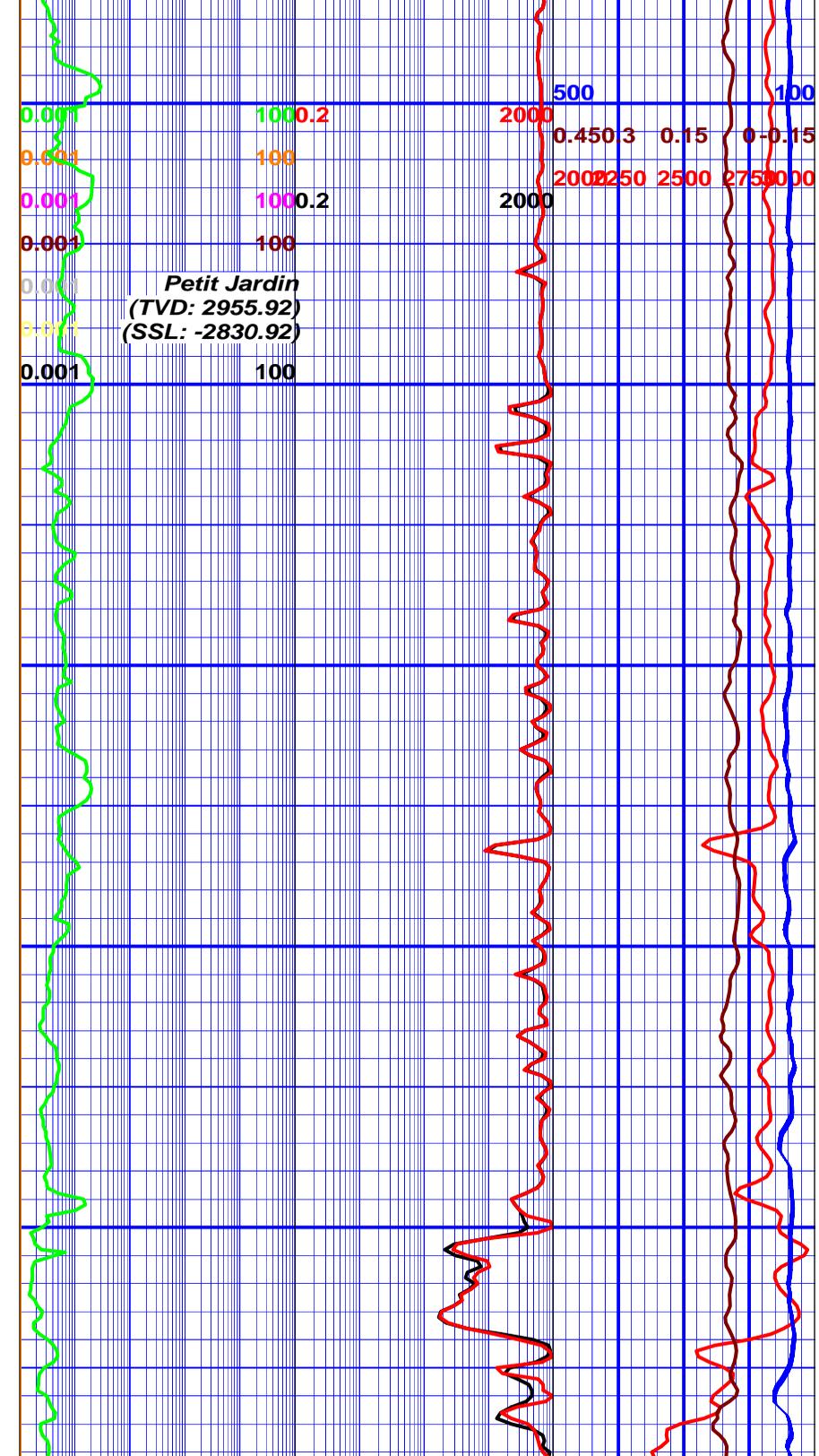
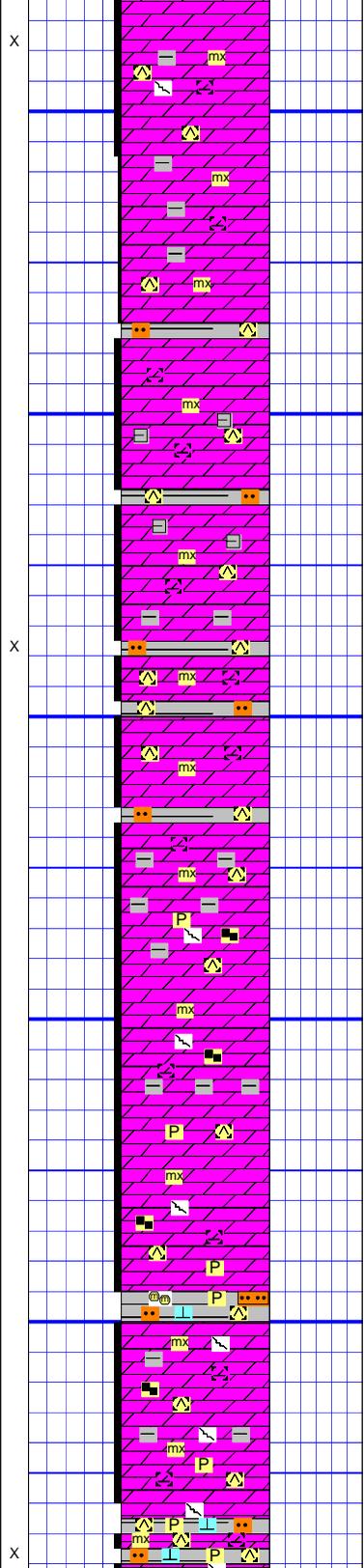
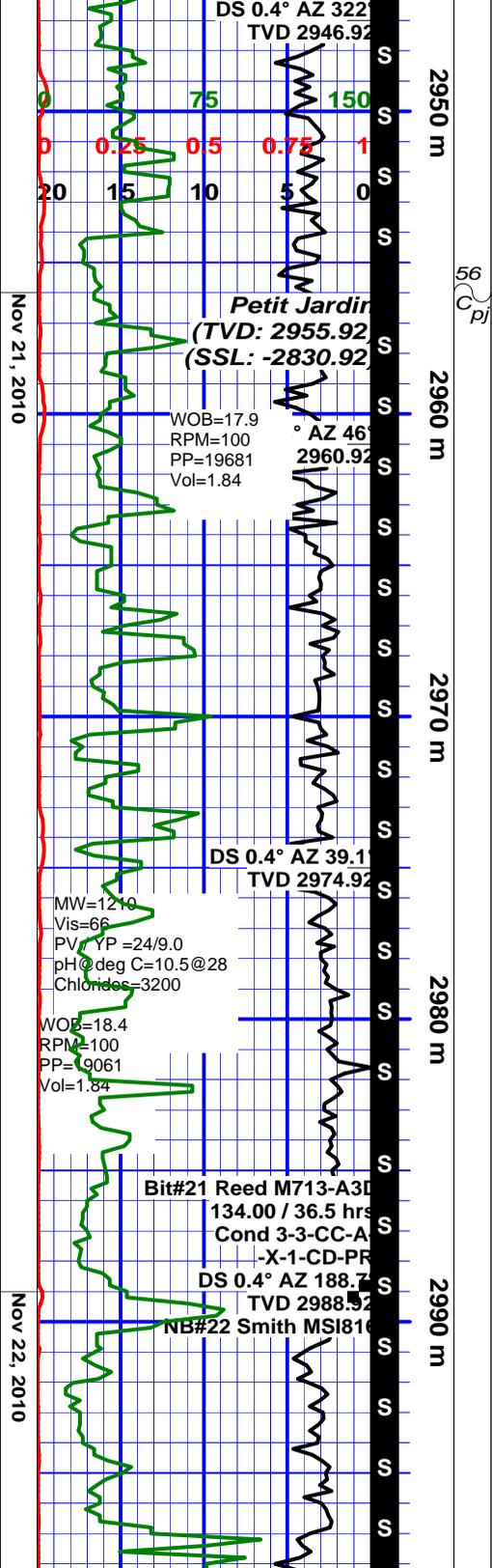
Dolomite: buff, off white, mottled light - medium brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, hard to firm, in part friable, abundant cemented with dolosparite & silica, in part brittle, platy to blocky, very argillaceous, common carbonaceous matter, trace bitumen staining, common fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

Chert: light - dark brown, pale white, light - dark gray, very hard, conchoidal.

Shale: dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

Dolomite: mottled light - medium brown, buff, off white, micro crystalline - fine crystalline, frequent coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, very siliceous, in part brittle, platy to blocky, very argillaceous, trace bitumen staining, occasional fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

Dolomite: buff, off white, micro crystalline - fine crystalline, massive, hard to firm, slightly sucrosic, occasional cemented with dolosparite, siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, minor fractures filled with white dolo rhombic aggregates, trace chert, poor intercrystalline, porosity, no shows.



Dolomite: buff, off white, light to medium brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, hard to firm, slightly sucrosic, occasional cemented with dolosparite, siliceous, in part platy to blocky, argillaceous, trace bitumen staining, minor fractures filled with white dolo rhombic aggregates, poor intercrystalline, porosity, no shows.

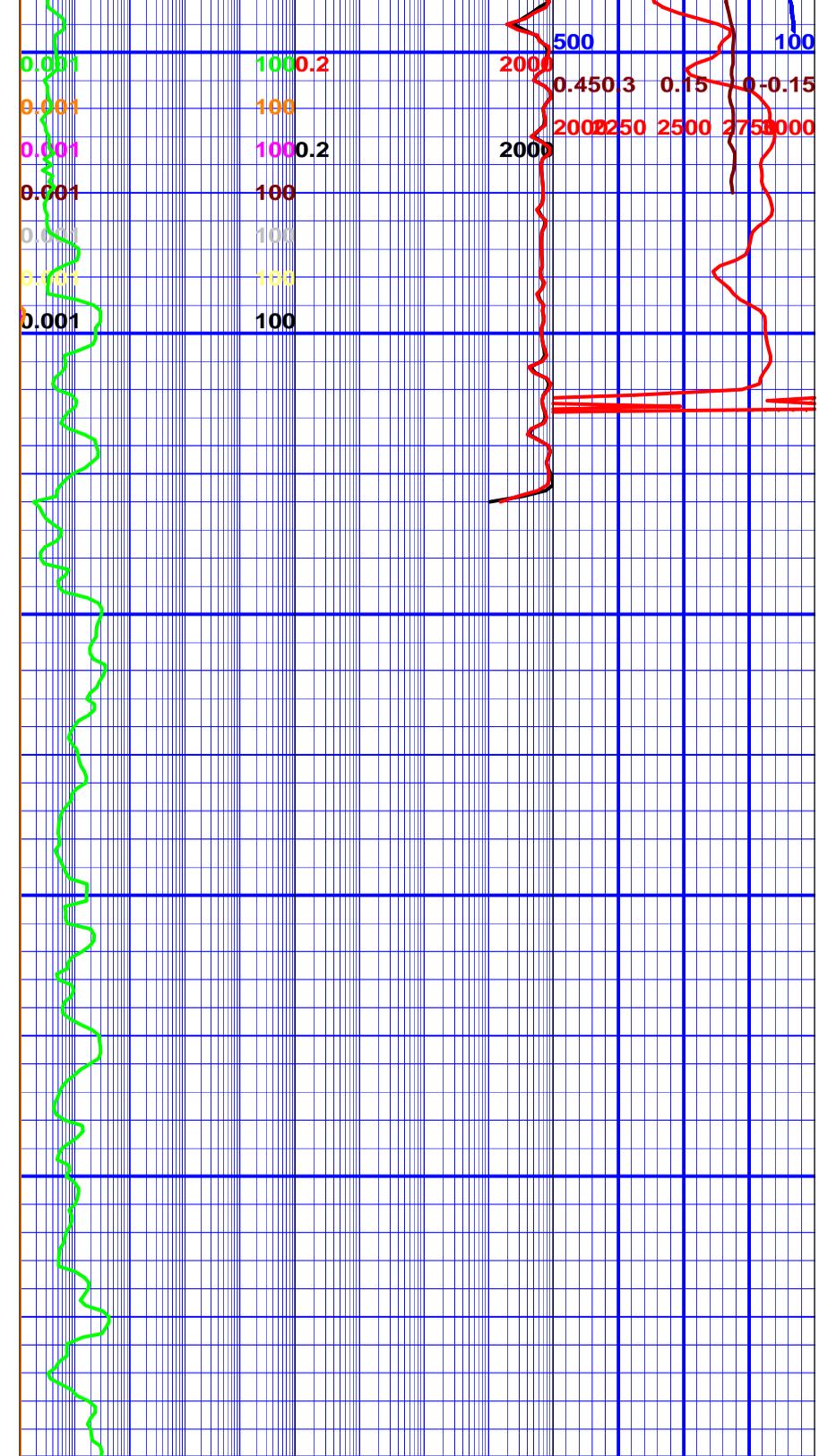
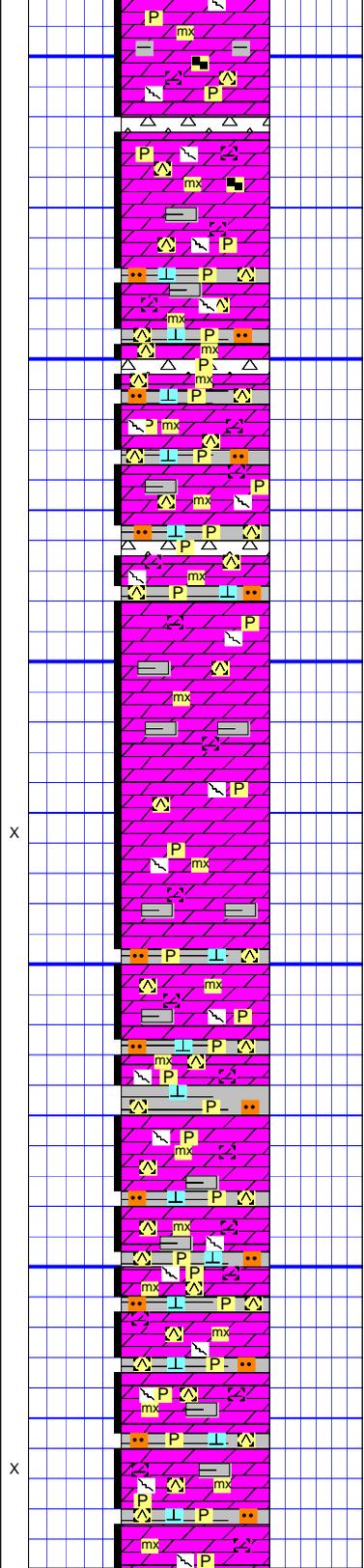
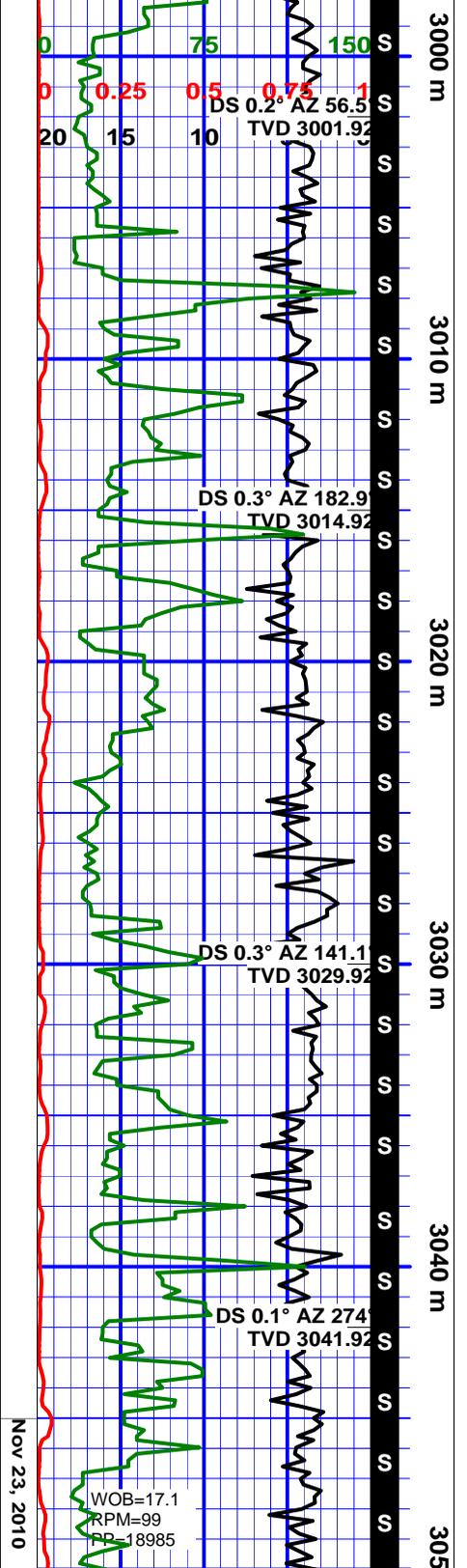
Shale: dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous.

Dolomite: light to medium brown, buff, off white, trace dark brown, micro crystalline - fine crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, in part brittle, platy to blocky, argillaceous, trace bitumen staining, occasional fractures filled with white dolo rhombic aggregates, fine disseminated pyrite, poor intercrystalline, porosity, no shows.

Shale: dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous, non calcareous, fine disseminated pyrite, micro micaceous.

Dolomite: buff, off white, white, light to dark brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, frequent cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, argillaceous, in part friable, occasional fractures filled with white dolo rhombic aggregates, common carbonaceous matter, occasional disseminated pyrite, poor intercrystalline, porosity, no shows. (POOH @ 2989m for new BIT)

Shale: dark gray, black, subfissile to platy, elongate, hard to firm, silty, frequent siliceous,



Dolomite: buff, off white, white, light brown, micro crystalline - fine crystalline, trace coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite, very siliceous, quartzitic, brittle, platy to occasional blocky, slightly argillaceous, abundant fractures filled with pyrite & dolosparite, trace dark brown limestone, poor intercrystalline, porosity, no shows.

Shale: dark gray, black, gray green, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

Chert: pale white, light gray, very hard, fine disseminated pyrite, conchoidal.

Dolomite: light to dark brown, buff, off white, micro crystalline - fine crystalline, occasional coarse crystalline, massive, common sucrosic, very hard to firm, abundant cemented with dolosparite, & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

Start Wireline Logging @ 3016m: Run#1 to Run#6

Shale: dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

Dolomite: buff, off white, white, light brown, micro crystalline - fine crystalline, occasional coarse crystalline, massive, very hard to firm, abundant cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to occasional blocky, occasional friable, frequent argillaceous laminae, minor fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

Shale: dark gray, black, subfissile to platy, very hard to firm, brittle, silty, frequent siliceous, slightly calcareous, fine disseminated pyrite, micro micaceous, grading siltstone.

Nov 24, 2010

WOB=17.9
RPM=100
PP=18612
Vol=1.85

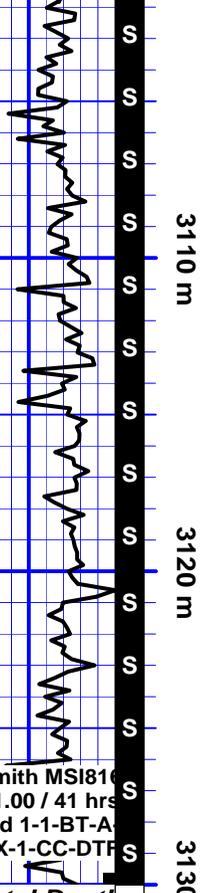
MW=1210
Vis=61
PV / YP =24/9.0
pH@deg C=10.0
@29
Chlorides=3300

Bit#22 Smith MS1816
141.00 / 41 hrs
Cond 1-1-BT-A
-X-1-CC-DTF

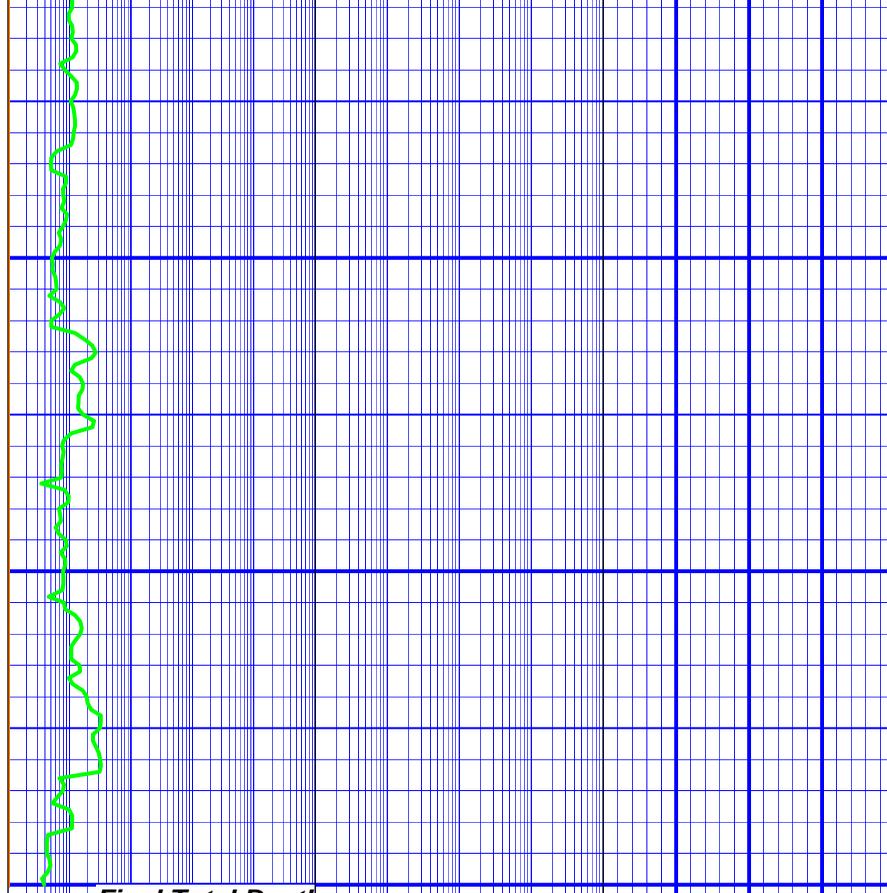
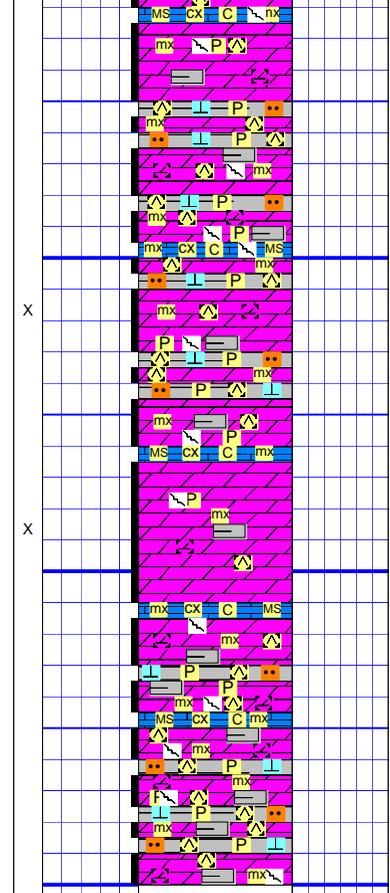
DS 0.5° AZ 64.9°

Nov 25, 2010

TVD 3129.92
Final Total Depth
(TVD: 3129.92)
(SSL: -3004.92)



3110 m
3120 m
3130 m
3140 m
3150 m



Final Total Depth
(TVD: 3129.92)
(SSL: -3004.92)

Limestone: medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, frequent fractures infilled with white calcite, occasional dark argillaceous bands, no visible porosity, no shows.

Limestone: medium to dark brown, buff, off white, mudstone, microcrystalline to cryptocrystalline, micritic, hard to firm, brittle, slightly stylolitic, chalky, frequent fractures infilled with white calcite, common dark argillaceous bands, no visible porosity, no shows.

Dolomite: buff, off white, white, light brown, micro crystalline - fine crystalline, massive, very hard to firm, strongly cemented with dolosparite & silica, very siliceous, quartzitic, brittle, platy to blocky, trace sucrosic, common argillaceous & shale laminae, occasional fractures filled with pyrite & dolosparite, poor intercrystalline, porosity, no shows.

Hole Sloughing Problems:
Ream & clean hole for Wireline Logging.
Only able to ream to 3020m.

Wireline Logging @ 3016m to 2275m.
Run#1: XMAC-GR-6 Arm Caliper.
Run#2: SP-HDIL-2ZDEN-2PE-2ZCOR-CNC-CAXY
Run#3: DLL-GR-Caliper
Run#4: RCOR (19 Cores)
Run#5: VSP
Run#6: SBT

Ground Elevation: 118.75 m

Casing Flange Elevation: m

Kelly Bushing Elevation: 125 m

All depths measured from Kelly Bushing Elevation

Formation Top Summary

Era	Period	Stage	Group	Formation	Member	Sample Top (MD)	Sample Top (TVD)	Log Top (MD)	Log Top (TVD)	Subsea
	O	Arenigian		Allochthon A		25.6 m	25.6 m	25.6 m	25.6 m	99.40 m
	O	Tremadocian		Allochthon B		385 m	385 m	385 m	385 m	-260.00 m
	O	Llanvirnian		Allochthon C		1005 m	1005 m	1002 m	1002 m	-877.00 m
	O	Tremadocian		Allochthon D		1603 m	1602.98 m	1600 m	1599.98 m	-1474.98 m
	O	Llandeilan		Goose(American) Tickle		1968 m	1967.96 m	1973 m	1972.96 m	-1847.96 m
	O	Llanvirnian		Table Point		2251 m	2250.94 m	2248 m	2247.94 m	-2122.94 m
	O	Arenigian		Aguathuna		2447 m	2446.93 m	2445 m	2444.93 m	-2319.93 m
	O	Arenigian		Catoche		2495 m	2494.93 m	2493 m	2492.93 m	-2367.93 m
	O	Tremadocian		Boat Harbour		2620 m	2619.93 m	2623 m	2622.93 m	-2497.93 m
	O	Tremadocian		Watts Bight		2744 m	2743.93 m	2743 m	2742.93 m	-2617.93 m
	C			Berry Head		2812 m	2811.92 m	2815 m	2814.92 m	-2689.92 m
	C			Petit Jardin		2956 m	2955.92 m	2961 m	2960.92 m	-2835.92 m
				Final Total Depth		3130 m	3129.92 m	m	m	-3004.92 m

Appendix J – Wireline Logging Report

Neil Watson
Atlantic Petrophysics Limited
Logging Supervision and Interpretation

LOGGING SUPERVISION REPORT



NALCOR ET AT FINNEGAN #1

Intermediate (311mm) Interval

October 31-November 6, 2010



Stoneham Rig 11 – file photo

Nalcor Energy - Oil and Gas
Hydro Place, 500 Columbus Drive
P.O. Box 12800.
St. John's, NL A1B 0C9

November 8, 2010

Dear Sirs/Mesdames;

Subject: **Nalcor et al Finnegan #1**
Intermediate (311mm) Interval

Logging Supervision Report

Introduction

The services of Neil Watson of Atlantic Petrophysics Ltd were engaged by Erin Gillis of Nalcor Energy – Oil and Gas to provide well logging supervision and reporting during the logging of the 311mm interval in the subject well.

Neil maintained contact with the wellsite geologist (Roland Strickland) via email to determine an appropriate time to travel to wellsite. Travel to the rig (Stoneham Rig #11) took place on October 31. Rig up by Baker Atlas commenced at approximately 11:30AM on November 2 and finished around 8PM on November 5. Neil arrived back in Halifax at 6PM on November 6.

Daily logging reports were sent via email to Erin Gillis, to Roland Strickland (wellsite geologist) and the company drilling representatives on location, and re-capped in the morning rig calls with St John's staff each morning. Significant events or items requiring a decision or communication with the geosciences team were communicated by phone or email.

Toolstrings Run

- 1) **Resistivity imager-XMAC-GR- 6 arm caliper**
- 2) **SP-HDIL-ZDEN-ZDEN-PE-CNC-CALXY-Resistivity Imager**
- 3) **RCI**
- 4) **RCOR**
- 5) **VSP**

Summary

Logging proceeded smoothly – in large part due to stable hole conditions. There were

several delays throughout the program.

The planned logging sequence was revised in the last few hours before rig up – to run a centralized tool string to minimize potential of getting stuck with eccentric tools and nuclear sources that would otherwise have been included in the originally planned Run 1. While initially raised by the drilling team, all other impacted personnel (myself included) were more than happy to take a more cautious approach to minimize the chance of getting tools stuck as a result of problem hole conditions during logging on Run 1). No such problems were encountered on any of the sequence of logging runs - in fact hole condition was very good throughout. This is believed to be in part due to the care and diligence during the drilling of the 311mm hole, and in part due to the vertical nature of the wellbore drilled.

Logging crew

The logging engineer was Shannon Crewe. Operators included Jason Hennessy, Maloud Bahar, and James Wood. Specialist engineers included Keith Hasiuk (RCOR), RCI (Bruce Barss and Randy Perry), and VSP (Joe Jewell). All were knowledgeable and diligent in carrying out their duties. The overall experience level was even higher than expected.

Crew organization for duration of job

All logging jobs turn into something of a “marathon” when things don’t proceed according to the pre-job time line. Runs 1 & 2 took longer than anticipated because of lost time on Run 1-and then very slow logging speeds on Run 2 as a result of including the backup resistivity imager tool. Time from commencement of starting to rig up Run1 until Run 2 was rigged down and off the drill floor by approximately 6:30PM on November 3 was 30 hours+. Shannon logged both of these runs and at the end of Run 2 commenced log print preparation and dataset compilation. He was able to get some rest during logging of the RCI run, but he returned to his position at the console for both the RCOR and VSP run.

It is recommended that two general service logging engineers be assigned to the next job. In such a key position it is important that the logging engineer not be overly tired - given the uncertain nature of any logging job.

Rig up/Rig down

Relative to what I have seen with other logging jobs and other service companies – my impression was that this crew carried out rig up/rig down logging operations faster than I expected. The crew was obviously familiar with their logging tools, seemed to make them up with fewer individual components, and spent less time until they were satisfied with on-surface tool checks. They showed good “hustle”.

Bottom Hole Temperature

Having had some concern about possible inconsistencies between apparent wellbore temperatures in 311mm and then 216mm hole in a recent well logged by

Baker in the area, I raised the issue with Shannon. He indicated strong confidence in the toolstring temperature readings but agreed to install actual thermometers in the head of the logging string. When they were retrieved at the end of Run 1, they indicated a maximum temperature of 54 degrees C. The logging string equivalent digital temperature was 53.8 degrees C. On this basis the toolstring temperatures were accepted as validated and separate thermometers were not run on each of the successive runs.

Non-productive time

There were several periods of lost time in the course of carrying out logging. My recommendation is for Nalcor to note it, bring it to Baker's attention as potential areas for improvement on the next job and then absorb it. Baker has taken specialty tools (RCI, RCOR, VSP) off line for a prolonged period and turned down revenue opportunities with them in order to be ready to log Nalcor's well when it came available. In the same fashion Baker could have been using the manpower on other revenue-generating opportunities in western Canada or the Gulf coast. And to the best of my knowledge, there were not going to be any standby charges (as there are in western Canada) for coming out to the job and then having additional time delays beyond a limited number of hours.

A half hour was lost during the initial casing check and sonic repeat done in the vicinity of the casing shoe. This was a result of needing to take time to get Baker's remote engineer to log onto the system and tweak the new operating system software that had just been installed. The specific fix was to make resistivity imager telemetry orientation match the real orientation. Otherwise it would have required tripping to surface and re-initializing the run.

There was approximately 4 hours of lost time in acquiring Run1 log data, when Baker's Geoscience team in Calgary reversed themselves part way through acquisition of Run 1 data to advise that the resistivity image logging should be terminated and the backup resistivity tool should be run on a subsequent run. The logging engineer (Shannon Crewe) had called the Baker Geosciences team and asked specifically for confirmation that the data was okay coming off bottom, and got that initial confirmation only to have it reversed. As a result there were an extra four hours of time spent logging at the very slow (2.5-3.0m/min) logging speeds required for acquisition of the resistivity imager data. Following receipt of the disappointing news, Shannon terminated main pass logging, terminated resistivity image acquisition and recommenced sonic – six-arm caliper acquisition at a substantially higher acquisition speed for the remainder of Run 1.

(Dan Floyd has since indicated that the resistivity imager information on the first run was actually okay - that the Geoscience team wasn't used to the combination of large hole, high background resistivities and thick shale intervals.)

Approximately six hours were lost at the start of the VSP program. Pulling a correlation

pass near 1500m with the GR on the VSP in order to do a fine-scale depth-adjustment initially looked to be indicating an approximate 15m offset. This was considered unusual - so the toolstring was pulled back to surface to re-zero the tool. After running back in to around 1500mMD another correlation pass was done. Again correlation was extremely difficult – in fact at times it almost looked as if the gamma readings were reversed. This time an offset of 4.2m was considered the best that could be achieved with the confusing data. However, after running to TD-no correlation at all was possible. So the toolstring was again pulled out of the hole and re-zeroed, a discussion held - and as a result the toolstring was run in using only the wireline depth control magnetic marks. One of the benefits of this approach was thought to be that a depth correlation against the sonic acoustic could be used for depth-adjustment in this case. Once this decision was arrived at-the program proceeded expeditiously.

(It is my understanding now that the gamma ray tool in the VSP string was in the process of failure. As a general comment, however, it would seem to me to make more sense that the modern gamma ray tool included in the standard wireline string should be compatible with the VSP toolstring-instead of using an old dedicated analog gamma ray tool.)

There was an incident just before the end of the logging –that I would attribute to the high winds going on during the afternoon while the VSP was in progress. With the toolstring just above 900m, when coming off of a VSP station-it suddenly appeared as if the toolstring was encountering substantial stickiness. However, it quickly became apparent that the wireline cable had jumped the lower sheave after a hard rubber guide gasket in the lower sheave jammed the cable feeding into the sheave. The cable was T-bar'd at the rotary table to take tension off, and the crown and floor sheaves slacked off to take pressure of the cable. The broken hard rubber pieces were removed, the cable re-threaded and the job resumed.

Pre-run preparations

As standard practice and in prudent preparation for a possible fishing job- toolstring sketches were asked for and received for all proposed logging runs before logging started. Having these sketches available with tool sizes, dimensions and weights are key items to be able to pass to the fisherman if any toolstring gets stuck during logging. (See appendices)

For the same reason, tension modeling was asked for and received for the most significant runs. This modeling looks at tool weights, wellbore geometry and possible hole problems to identify-potential problems prior to running into the hole with an inadequate overpull envelope to handle pulling the toolstring off bottom or if it gets stuck.

There was some confusion initially on whose responsibility arranging for fishing tools was. Baker does not have their own fishing tools and suggested that they be accessed through Weatherford. The company men handled getting these shipped to the rig – and

it was satisfying that they were not needed. However, for the next logging job- it is suggested that Kim Davies (Weatherford fisherman – St John's) be contacted ahead of time to arrange to have a suite of fishing tools on location – and a fisherman tentatively identified. Since fishing means different tools to different people - it is important to have a wireline cut and thread kit, an overshot for the toolstring head, and an overshot capable of washing over top of the logging tool bodies., as well as the crossovers needed to go from the drillpipe in use on the rig to the fishing tools themselves.

An additional item that came up once logging had already started was the protocol to be followed if the toolstring got stuck. This information (sequence of people to call, their contact numbers, and what to do if people could not be contacted) was gathered and passed on to the loggers. For the next time-putting this on a page in large font – and giving copies to the loggers and company men would be a reasonable next step.

Contingency logs

There was a contingency in place to run a dual laterolog resistivity tool as the third logging run if the HDIL induction-based resistivity had not been satisfactory. (There was some question about whether the array induction tool run in the Seamus well was correctly functioning.) During this logging run also, the resistivities measured by the HDIL approached the combination of formation resistivities and assumed mud/formation water resistivity ratio that could have made it worth considering. Particularly the shallow resistivity curves seemed to be influenced by the resistivity of the whole mud in the large hole size, while surrounded by formation of relatively high resistivity.

Knowing that this question (use of laterolog) needed to be addressed, the relevant Baker comparison chart was examined - given the average formation resistivity, and the ratio of the mud filtrate to assumed formation water resistivity the induction-based tool seemed to be the recommended choice. This conclusion was reviewed with Erin Gillis and Dan Floyd was asked for an opinion. Everyone concurred that the dual laterolog need not be run.

Rig communications

All groups on location were very co-operative. By nature of the job, the logging job supervisor/petrophysicist must work closely with the wellsite geologist. In this case, Roland Strickland provided update emails to pick the right time to come out to rig, provided data for the petrophysical analysis (to follow) and took several sessions of sitting with the logging engineer to allow the petrophysicist to catnap. In addition to that, Roland shared his work space and USB port connections so that both could send and receive emails. Effort, co-operation, support and assistance that was not required- but freely offered and much appreciated.

The day and night company men were also very obliging. It seemed that having a logging supervisor/petrophysicist on location also gave them a way of directly finding out the status of the operation at any given time – so that they could make more

efficient use of their own time.

The Baker manager (Dan Floyd) was always available via email or cell phone whenever I had questions to ask him and got answers back to me quickly.

Conclusions

This was a logging job that acquired all needed logs (successfully running the RCI tool- although not being able to acquire formation pressures) without getting stuck. Hole conditions in preparation for logging turned out to be excellent. There were several periods where there was some non-productive time during the logging operation. The logging crew were good workers and were anxious to provide quality data to the client, and knew that they were in the spotlight with a chance to shine after the results of the previous Seamus well with a different logging company. The logging company (Baker Atlas) was anxious to do a quality job - to the point that they turned down opportunities to use the tools and equipment elsewhere in the preceding month - in order to make sure that they were available and prepared when the logging job occurred.

The pre-job theory that running two density tools in the toolstring at right angles to each other has been validated. While there are the inevitable intervals (near faults?) that show hole washout in all axes, for much of the rest of the logged interval there is at least one in-gauge axes that has been logged and provided valid density data.

The different caliper logs provide confirmation of what had been suspected – that the rock encountered in the subsurface was highly stressed tectonically. Drilling the interval vertically is thought to be the only way that the well would have washed out (over intervals in the wellbore) in only one axis, caused minimum cavings to interfere with logging and allowing successful orientation and acquisition of well logs as a result.

Formation Evaluation Morning Reports

Nalcor et al Finnegan #1

Introduction

- Flew from Halifax – Deer Lake on Sunday, 31 October as per previous email discussions with Erin Gillis and Roland Strickland
- Picked up vehicle at Deer Lake Airport and drove to Shallow Bay Motel and checked in.
- Continued on to Nalcor et al Finnegan #1 wellsite and checked in with wellsite geologist Roland Strickland and Nalcor company representatives Randy Kavanagh and Bill Williams. Discussed status and forward plan.
- Met with Baker wireline crew (Bruce Barss – RCOR specialist, Shannon Logging engineer) after supper and discussed forthcoming logging program. Forwarded points raised by Baker to Erin Gillis for discussion.

Report # 1, November 1

STATUS @ 6 A.M.: Drilling ahead @ ~2269m MD

Chronological Summary – Last 24 hours

- Travel to, arrive on location and check in at Nalcor et al Finnegan #1
- Discuss logging program with Roland Strickland
- Discuss logging program with Baker crew

□

Report # 2, November 2

STATUS @ 6 A.M.: Pooh @ 1186 in preparation for logging

Chronological Summary – Last 24 hours

- Travel to rig
- Discuss well status and forward plan with Roland
- Talk with Roland Duval (MI Swaco mud rep). Request copy of current mud report and that a mud sample be taken (in case Baker hands arrive on location after circulation has ceased)
- Raise issue of wireline fishing kit with company drilling reps. Determine that their expectation was that Baker would provide. Then called Baker rep (Dan Floyd) who indicated that their understanding was that Weatherford would provide. Discuss item in morning rig call with Nalcor Drilling Manager.

Company men to follow up with Weatherford to get wireline fishing kit on the road.

- Receive rig and safety orientation from Stoneham drilling manager
- Worked on details of logging program via email with Erin and Dan throughout the day
- TD'd interval @ 2285 mMD @ 3PM
- In doing short dummy trip before coming out to log, the bottom of the well was "sticky". It was decided that it would be best not to come out of hole in preparation for logging until the drillstring could come off of bottom cleanly with no over-pull.
- Working of the hole continued until approximately 3AM (including a mud weight increase to 1290kg/m³) at which time the trip out in preparation for logging commenced.
- Via the company man onsite-the possibility of not running density tools and nuclear sources was raised. Discussion with G&G and reservoir staff led to a consensus that a different Run1 was probably a good plan. It was decided that substituting the planned Run 2 with centralized, non-nuclear resistivity imager-sonic-gamma-6 arm caliper would still keep use progressing with the overall logging evaluation plans. All were in agreement with that decision and it was subsequently reviewed in the 9AM morning rig call.
- A subsequent discussion was held with (Randy) company man, (Shannon) the logging engineer, and myself. The plan will be to do up/down tension checks every 500m down to 2000m (when running into hole with the revised Run 1 tools) and every 50m below that until TD is reached. If anomalous tension pulls start to occur, the toolstring will be pulled up to at least 1750m MD before having a further discussion.

□

Report # 3, November 3

STATUS @ 6 A.M logging HDIL-ZDENx2-CNC-GR-CalXY-backup Resistivity imager.

Chronological Summary – Last 24 hours

- Following the morning rig call the company man informed the Baker engineer and Roland and myself that the town of Parsons Pond has emailed the StonehamDrilling rep indicating an intention of blockading the access road at the highway in apparent protest for a lack of jobs being made available to residents of Parsons Pond. The company man (Randy) said it would review with his manager at Nalcor.
- A pre-logging job safety meeting was held by the drilling team and the Baker logging crew – with key points discussed.
- Rig up of revised toolstring #1 (Resistivity Imager – Xmac Sonic – GR- 6-Arm Caliper) was finished by 12:45PM and after tool checks were completed

- running into hole commenced at 1:00PM
- A casing check and repeat log were commenced (1:15PM) at 680 mMD back to the casing shoe at 570 mMD.
- A software/hardware incompatibility issue was immediately recognized that was a result of a problem with updated software that had to be installed remotely by the engineer in Nisku – this took about a half hour to resolve
- The fix was completed by 2:00PM-at which time the engineer dropped down and the repeat and casing check started again.
- The toolstring was dropped out into open hole at 2:50PM.
- Tension check were done every 500m down to 2000m (no tension issues of any sort were seen)-and then every 50m until TD was reached (again no tension issues of any sort were seen)
- The toolstring was on bottom at 3:40PM and time on bottom to initialize and start logging up was just around 2 minutes.
- While there were no tension issues coming off bottom – there appeared to be approximately 5m of fill –with the cable taking full toolstring weight by 2280mMD.
- Top of carbonate was seen at 2248mMD.
- After logging upward to just around 2200mMD the logging engineer terminated the pass because it was decided that the resistivity imager data wasn't correct
- No tension effects were seen-and washouts were not as severe as had been anticipated.
- Two more attempts were made at getting the resistivity imager to work correctly-and on the last one the data processing folks in Calgary signed off that it was good so logging main pass proceeded So the “main pass off bottom” commenced at 4:30PM.
- With the main pass underway, the engineer (Shannon Crewe) and I discuss upcoming plans for the SLAM. We talked about the different ways to accomplish the density log requirements in the vicinity of the gas shows.
- I sent a note to Erin at around 5:50PM and shortly thereafter had a conference call with her, Roland Strickland, Wayne Chipman, and Leona Wahl.
- The consensus was that logging the whole openhole interval on high-resolution density acquisition was probably merited if incremental costs weren't too high. (I then sent a note to Dan Floyd and asked that he provide a note on these incremental costs so that a decision could be finalized. These incremental costs were found to be several thousand dollars so it was decided that that was acceptable-and I passed the decision back to the engineer that we would acquire continuous high-resolution density data on the second run.
- This was finalized by about 7:30PM.
- At 8PM Shannon came to inform me that the processing people had called

back from Calgary saying that the quality of the resistivity imager was not satisfactory after all and thought it was a tool issue.

- Shannon recommended turning off the resistivity imager and finishing the sonic gamma 6 arm caliper – and that that data could be acquired at approximately 10m/min (with resistivity imager it is 2.5-3.0m/min). The backup resistivity imager could then be added to the top of the SLAM planned for Run2, although the first reading would be farther off bottom. We asked if there would be either weight or simultaneous transmission problems- and Shannon indicated that all of the Run 1 and Run 2 logs had originally been planned as one superstring.
- This forward plan was passed to Erin by phone and after discussion concurred.
- Logging speed did pick up substantially as a result of dropping the resistivity imager- and after dropping down to start an overlap interval –logging speed was approximately 10m/min until the casing shoe was reached at 10:25PM
- Run 1 toolstring (Resistivity imager-Xmac sonic- Gr- 6-arm caliper was then rigged down- the two actual thermometers read actual max temperatures of 54 deg C vs the tool max temp of 54.9 deg C and on that basis –actual thermometers will not be run on the next runs
- Run 2 toolstring (HDIL induction resistivity-ZDEN dual density-CNC neutron-GR gamma ray- CalXY- and back up resistivity imager) were then rigged up. This toolstring is 43m long and weights 1042 kg
- RIH commenced at 1:45AM with logging repeat pass back into the surface casing shoe commencing at 2:00AM @ 3m/min. Resistivity imager still not great – but better than first one- slower resistivity curves show separation from deeper- likely as response to larger hole size and some washout.
- This repeat pass was sent or made accessible to the remote engineer by around 2:30 AM and the geosciences folks in Calgary for signing off on tool data being usable. Getting confirmation was incredibly slow.
- As a consequence – at 3:35AM the decision was made to commence the descent to TD on the assumption that signoff would be coming at some time and by 3:45 AM the windman was doing tension checks at 1000m MD.
- At 3:45AM the signoff of acceptable resistivity image data was passed back.
- Tension checks continued at 500m increments to 2000m and every 50 m from there to TD.
- On the last tension check the depth tie in to the previous run was made. The before log calibration checks had been done by Shannon during the descent to TD.
- At 4:45AM the toolstring was logged off bottom. There were no indications of tension issues of any sort- and the log acquired at least to 2170m MD (5:40AM) shows one density tool riding the correct (narrow, smoother) side

of the hole. In coming off bottom, there appeared to be an additional 0.5m of hole fill.

- As a result of having the resistivity imager in the toolstring-as well as the total volume of data being generated continuously-logging speed will be approximately 2.5m/min or around 11.5 hours of logging time. This will mean that this logging run will finish around 4PM.
- Digital data (*.las file) and prints of Run 1 are estimated to be available around 10 this morning (Shannon had to run winch and help with tool rig down of Run 1 and rig up of Run 2. The time intensive running of the resistivity imager shallow and communicating with the remote engineer also cut into time available for file and print creation.
- Shannon getting pretty tired and still at least another 12 hours of logging to go – and then rig down and print/data creation. For next time there likely should be two engineers that can share the running of the basic runs (there are enough specialist engineers/operators on the current job).
- Morning report depth at 6:00 AM was ~2150mMD.

Report # 4, November 4

STATUS @ 6 A.M logging supplemental RCI pressure point in straddle packer mode (1523-1524mMD)

Chronological Summary – Last 24 hours

- Running of Run2 logging string HDIL-ZDENx2-CNC-GR-CalXY-backup Resistivity Imager continued routinely
- Around 7AM Shannon provide the field print of the cement volume log – showing good match between theoretical hole and annulus volumes-and that calculated from the 6 arm caliper – this appears to show that hole washout is minor and usually restricted to one axis.
- One of the density tools continued to ride the narrow axis of the hole – so should provide a very good density log at conclusion.
- At 7:40AM logging tools had reached 1915mMD
- Good but very slow (2.5m/min) progress continued throughout the morning with no hole problems of any sort.
- Discussion continue via email between Dan Floyd, Erin and myself on the suitability of the HDIL induction resistivities being provide and whether there would be benefit in scheduling the Dual Laterolog-although agreeing that Shannon would have to have a break before he could start logging again.
- Wayne Chipman, Leona Wahl and myself had a discussion around 4PM on RCI program goals and capabilities and to develop a strategy for carrying out the run.
- Around 5PM, Wayne Chipman, Leona Wahl and myself had a conference call

with Erin Gillis talking about the intentions with the pressure and fluid sampling program to be carried out with the RCI.

- The Run 2 logging tools were back into the casing shoe by around 5:30 PM.
- After Shannon provided the resistivity and neutron-density panels we transferred the proposed points (with priorities) over to the neutron-density log for reference as the points are acquired during the program.
- I took that information and sent them out in spreadsheet form to affected persons.
- By 6:30 PM Run2 tools were being rigged down off the drillfloor, while Run 3 tools were being spotted on the cat walk.
- The RCI toolstring was being assembled and run through the rotary table by around 7:40PM. Shannon was doing final print preparation at this time.
- Carry out tool function tests while sitting in the rotary table (08:50PM).
- Shannon delivered two copies of field prints and a set of las files. Said that he still had to convert some log files to pdf-will come back in the morning after some sleep and do that.
- Ran into hole commencing first pressure point probe set in sequence at 10:27PM.
- Carried on with pressure probe sequence throughout the night. As of morning report time –Points 1-9 in the sequence had been carried out. All of the probe sets leaked to hydrostatic, and the selected inflate packer set successfully sealed but was tight.
- At report time an additional packer set was in progress (straddle interval 1523-1524mMD). The pressure response was anomalous- possible some combination of rock low permeability/and tool response. To understand better, the drawdown of the formation was reversed to see if pressuring up the reservoir would result in a constant over-pressure, or if a leakoff would result.
- Intention as of report is to continue with the remaining probe sets on the list (points 11-17 in sequence remain to be done), possibly finishing be around noon. RCOR will be next in logging sequence.

Report # 5, November 5

STATUS @ 6 A.M In hole with VSP -Finish testing and tuning of guns in sump - geophones down at surface casing shoe

Chronological Summary – Last 24 hours

- Continued probe sets in the upper openhole interval with no success (immediate hydrostatic response indicates enough micro – rugosity on the wellbore wall that the pad around the probe couldn't seal.
- This lack of success continued until the probe was set at 796mMD. A good

seal was obtained and after a 5 cc drawdown the resulting buildup pressure seemed to stabilize at ~8033kPa. However, the second 5 cc withdrawal resulted in a major drop in pressure, with subsequent build up being close to non-existent.

- All subsequent probe sets failed to seal out the hydrostatic pressure of the drilling mud. The final attempt was finished at 8:15AM.
- I talked with the engineer that will run the VSP next. He confirmed that he had all of the information need to carry out the VSP-as Richard Wright had indicated by email.
- A Baker rep called at about this time and enquired if I had any issues. This seemed to be a “good practices” courtesy call or possibly feeling out Nalcor on disappointment with no pressures from RCI. I indicated that in general I was happy with equipment and crew but would like to review the data with him once the logging job was finished, It would actually be really good to go over the data and logs with dan Floyd and get him to answer questions on specific aspects of their tools.
- The RCOR tool was being rigged down off the drillfloor at 10:00AM, and by 10:45AM the RCI tool was at 1000m on descent
- During the run in process to reach the deepest pressure point there were no tension issues of any sort observed.
- Core #2 was being cut by noon.
- Initial cores were being cut in about 15 minutes. This cutting speed has gradually decreased.
- The engineer running the coring tool has commented that above 1300m the cores are not as brittle as the ones below that depth. In addition to that – people have comment on how drilling slowed dramatically at about this depth. Would a different imbricate at this depth be a possible explanation?
- By 2:40PM cutting the core at 1974mMD, by 4:15PM cutting at 1683.96, by 6:00 PM cutting at 1525.6mMD and by 8:30PM at 1215mMD
- Correlating prior to cutting core #26 at 10:35PM, correlating prior to cutting core #28 at 11:45PM, and finished cutting final core at 2:35
- RCOR back on surface and core barrel laid out in Baker doghouse at 3:30AM. By this time Joe Jewel (VSP specialist) was sorting out why too much air pressure was going to the airguns positioned in the sump. Turned out that in testing them in the afternoon, moisture freezing in the lines must have frozen a control valve.
- After wiping the cores, it turned out that there was recovery on 33 of 34 attempts. A number of them have split due to their brittleness.
- Need to determine what will be done with cores-whether to leave them for Roland to describe when he returns – or to send them back to St John’s with Baker.

- Putting geophones on catwalk @4:25AM, then starting to move them to the rig floor and run them into hole.
- Testing/tune guns individually, then together. Verify timing and responses at geophones (previously run in to cover bottom of surface casing and into openhole. (5:45AM)
- Running in to 1510m with geophones to do check shot after doing correlation pass with GR – 6:05AM

Report # 6, November 6

STATUS @ 6 A.M Conditioning mud at bit depth of 2284 mMD

Chronological Summary – Last 24 hours

- Extreme difficulty in getting correlation near casing shoe - best estimate of approximately 15m considered excessive-POOH to re-zero tool (0.4m difference) in rotary table.
- At surface casing shoe again and pulling correlation pass by 10:15AM. Do casing shoe check shot again. Extremely difficulty correlating – best estimate of difference 4.2m. Run in to near TD (10:30AM) Correlation impossible. Out of discussion – decide that working from wireline depth without final adjustment of VSP GR to wireline GR is best alternative. From discussion later in the day – the suspicion is that the GR tool in the VSP string was gradually failing-but to me this brings up the point that the Baker’s VSP process would be improved by taking a wireline GR tool and using it for fully consistency in calibration (My understanding is that the GR used in the VSP tool is an older version with different telemetry).
- Come back to surface and re-zero tool again. Shoot checkshots at 550 and 1500mMD on descent to TD.
- Finish deepest portion of VSP by 2:05PM. Top gun at 2230mMD-base of toolstring at 2275m. No problem with sticking or any appearance of touching fill.
- Have telephone discussion with Wayne Chipman on next steps regarding RCI. Send email to Dan Floyd and RCI engineers asking to be informed of findings and conclusions when RCI service-and if servicing done in St John’s to be able to see in to learn more about tool function and any issues identified during servicing. Asked for confirmation of information provided by specialist RCI engineers Bruce Barss and Randy Perry that alternative probe packers are available that have a raised rubber lip around perimeter that might provide better sealing when there might be micro-roughness of wellbore wall preventing seal from hydrostatic pressure of mud column. Also asked for check of RCI database of jobs for any information on similar job results that

might give more understanding on what happened.

- VSP moving to indicated top gun depth of 2110 at 2:20PM.
- At 1630mMD by 3:30PM. (Quality of acoustic impulse following firing airguns improved significantly. Crew now into a routine and job speeding up significantly.)
- Moving to 910mMD at 5:00PM.
- At 5:30PM when moving to next depth-encounter extreme stickiness and significant tension overpull. But difference in ease of moving down vs up with toolstring was peculiar. Then it was determined that wireline cable had jumped track on lower sheave after jamming with linefeeder hard gaskets.
- Set T-bar on wireline in rotary table-strongly tightened to bear total weight of toolstring and tools on wireline below and lower wireline against stand to tack tension off of sheaves. Had driller lower upper sheave and wireline operator slack off to bring lower sheave to working height. Pull jammed linefeeder hard gaskets out of sheave assembly and placed wireline correctly in sheave. Re-rigged sheaves, took T-bar off of wireline cable at rotary table and resumed wireline operations. (Think that high gusting wind conditions throughout job may have worn linefeed gasket to where a rough edge eventually caught and jammed the cable.)
- By 6:00PM at 670mMD.
- VSP operator thought that impulse quality continued to be good inside casing so he continued acquisition as high as possible in the well. Last depth acquired was 25mMD
- VSP program concluded by 7:05PM

Well Name Nalcor et al Finnegan#1		Wellsite Geologist(s) R. Strickland		Specialist(s) / Petrophysicist(s) N. Watson		Date (mm/dd/yy) 06/11/2010	
Wireline Contractor Baker Atlas		Wireline Engineer(s) Shannon Crewe		Drilling Supervisor R.Kavanaugh, B. Williams, T. Kennedy		Conveyance Method Wireline	
Requested Arrival Date (mm/dd/yy) Arrived several days early		Requested Arrival Time (00:00)		Actual Arrival Date (mm/dd/yy) 02/11/2010		Actual Arrival Time (00:00) 8:00	
Time Rig Up Commenced (mm/dd/yy 00:00) 11/2/10 11:30		Time Rig Down Completed (mm/dd/yy 00:00) 11/5/10 20:30		Driller Depth (m) 2285.0		Logger Depth (m) 2280.9	
				Difference (m) -4.1			

Interruptions in Logging Activities (Conditioning Trips, Hole Problems, Etc.)

Explanation	Interruption Start (mm/dd/yy 00:00)	Interruption End (mm/dd/yy 00:00)
Debug new op system software by remote (Edmonton) engineer (0.5 hrs)	11/2/10 13:15	11/2/10 13:45
STAR Imager - approved, then rejected by Baker Geoscience-waste 4 hours logging slowly, then ran back-up imager on the next run at very slow logging speeds	11/2/10 16:00	11/2/10 20:00
VSP - Couldn't correlate onto depth - GR failing (6.0 hours)	11/5/10 6:00	11/5/10 11:59
Wireline cable jumped lower (drillfloor) sheave (0.5 hour) - high winds through afternoon	11/5/10 17:30	11/5/10 18:00

Service Summary, Failures and Log Quality
(Failures Must Be Non-Borehole Related)

Wireline Service	Run	Trip	Interval (m)		Total Logged (m)	BHT (°C)	Rig Up Time (00:00)	Rig Dwn Time (00:00)	Total Time (Hrs)	Lost Time (Hrs)	Calibration Failures/	Depth Control Failures?	Repeat Failures?	Logs Consistent With Offsets?	Tool Specific Failures/	Presentation Failures?	Log Quality Rating [1(poor) to 4(Excellent)]
			Bottom	Top													
STAR Imager-XMAC-GR-6-Arm Caliper	1	1	2260.6	570.0	1690.6	54.9	12:00	0:00	12.0	4.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
SP-HDIL-2XZDEN-CNC-GR-CalXY-STAR Imager	1	2	2274.9	570.0	1704.9	53.3	0:00	19:00	19.0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
RCI-GR	1	3	2062.5	761.5	1301.0	53.3	19:00	10:00	15.0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
RCOR-GR	1	4	2265.0	767.6	1497.4	54.9	10:00	3:00	17.0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
VSP-GR	1	5	2275.0	25.0	2250.0		3:00	19:00	16.0	6.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Time Summary

Total Logging Time (hrs)	Total Lost Time (hrs)	Total Interruption Time (hrs)	Logging Efficiency (%)
81.0	11.0	11.0	84.3

Problems and Lost Time Details

Details above.

Difficulty getting formation pressure data with RCI: likely a function of relatively low porosity and permeability: Baker suggests for next time to use single-probe pads with raised rubber lip around perimeter-as way of getting better seal.

Remarks

Logging sequence re-ordered just before program started-as a result of hole cleaning issues that developed before trip out of hole to log: All in agreement to run centralized non-nuclear source toolstring first to caliper hole before running nuclear tool sources for descent 2.

Most of openhole had no washout-or minimal washout in one hole axis. This attributed to drilling hole vertically and use of modified drilling practices.

Subsequent to conclusion of logging: ZDEN2 observed to be systematically offset to lower density by 50kg/m3 (statistical determination). This believed to be result of dual-axis tools at very limit of caliper reach. For next time use larger tools of WTS-type in 311mm hole, and to place additional knuckle between tools to minimize or prevent ZDEN2 slightly lifting off of wellbore wall.

Well Name Nalcor et al Finnegan#1		Wellsite Geologist(s) R. Strickland		Specialist(s) / Petrophysicist(s) N. Watson		Date (mm/dd/yy) 29/11/2010	
Wireline Contractor Baker Atlas	Wireline Engineer(s) Shannon Crewe, Jared House		Drilling Supervisor Randy Kavanaugh, Bill Williams, Tim Kennedy		Conveyance Method Wireline	Maximum Deviation (°) 1.4 deg @ 2331 mMD	
Requested Arrival Date (mm/dd/yy) Arrived several days early	Requested Arrival Time (00:00)	Actual Arrival Date (mm/dd/yy) 11/27/2010	Actual Arrival Time (00:00) 12:00		Field Cost		
Time Rig Up Commenced (mm/dd/yy 00:00) 11/27/2010 15:00		Time Rig Down Completed (mm/dd/yy 00:00) 11/29/2010 15:00		Driller Depth (m) 3130.0	Logger Depth (m) 3020.0	Difference (m) -110.0	

Interruptions in Logging Activities (Conditioning Trips, Hole Problems, Etc.)

Explanation		Interruption Start (mm/dd/yy 00:00)		Interruption End (mm/dd/yy 00:00)	
GR in VSP toolstring difficult to correlation to regular wireline GR		11/29/2010 00:30		11/29/2010 1:00	

Service Summary, Failures and Log Quality
(Failures Must Be Non-Borehole Related)

Wireline Service	Run	Trip	Interval (m)		Total Logged (m)	BHT (°C)	Rig Up Time (00:00)	Rig Dwn Time (00:00)	Total Time (Hrs)	Lost Time (Hrs)	Calibration Failures/	Depth Control Failures?	Repeat Failures?	Logs Consistent With Offsets?	Tool Specific Failures/	Presentation Failures?	Log Quality Rating [1(poor) to 4(Excellent)]
			Bottom	Top													
XMAC-GR-6-arm Caliper	2	1	2998.4	2275.0	723.4	54	15:00	22:30	7.5								
SP-HDIL-2xZDEN-CNC-GR-CALXY	2	2	3012.4	2275.0	737.4	57	22:30	4:30	6.0								
DLL-GR-Caliper	2	3	3016.4	2275.0	741.4	54.6	4:30	8:30	4.0								
RCOR-GR	2	4	2993.0	2330.0	663.0	54.0	8:30	22:00	13.5								
VSP-GR	2	5	3010.0	2275.0	735.0		22:00	8:00	10.0	0.5							
SBT-GR	2	6	2273.3	11.0	2262.3	54.6	8:00	15:00	7.0								

Time Summary

Total Logging Time (hrs)	Total Lost Time (hrs)	Total Interruption Time (hrs)	Logging Efficiency (%)
48.0	0.5	0.5	98.9

Problems and Lost Time Details

Satellite data transmission system not working - but considered to be an offline problem. Did lead to delay in being able to get SBT log transmitted as email attachment to personnel in St John's.

Remarks

Excellent job by crew.

By agreement between Drilling and Geoscience teams - decided not to try and clean hole back to 3130 mMD after sloughing & cavings occurred: Instead clean to 3030 mMD and consider 3020 mMD the logging TD for well.

Again - calipers indicate washout mostly concentrated in only one axis at a time - leaving other axes in-gauge for logging - vertical well and good drilling practice believed to contribute.

Dual density tools in smaller 216mm hole and with additional knuckles between them provided excellent data.

Cut 18 sidewall cores with RCOR - recover 19 (one re-cut).



Wireline Formation Test Pressure Survey

Run/Trip	Date (mm/dd/yy)
1/4	11/05/2010

Well Name		Wellsite Geologist(s)		Petrophysicist(s)		Specialist Engineer(s)			
Nalcor et al Finnegan#1		R. Strickland		N. Watson		B. Barss, R Perry			
Depths (m)		Formation		Deviation (°)	Hole Size (mm)	Log Porosity	Temperature (°C)		
Bottom	2062.5	Top	758.5	Allochthon C-D/Goose Tickle		0.9 deg@1754m	311	.04	48.8

Formation Fluid Type				Drilling Fluid System			
<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Condensate	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Water	<input type="checkbox"/> Oil Based	<input checked="" type="checkbox"/> Water Based	ppm	

Tool Make-Up		Survey Details							
--------------	--	----------------	--	--	--	--	--	--	--

<input type="checkbox"/> MDT <input checked="" type="checkbox"/> SGTL (Gamma Ray) <input checked="" type="checkbox"/> Power <input checked="" type="checkbox"/> Pumpout <input checked="" type="checkbox"/> Sample 1 Gallon X <input checked="" type="checkbox"/> Sample 2.75 Gallon X <input checked="" type="checkbox"/> Multi-Sample 6x450 cc <input checked="" type="checkbox"/> Flow Control <input checked="" type="checkbox"/> OFA <input checked="" type="checkbox"/> Hydraulics <input type="checkbox"/> Single Probe <input type="checkbox"/> Dual Probe <input checked="" type="checkbox"/> Dual Packer <input checked="" type="checkbox"/> 6 Gallon Sample	<input checked="" type="checkbox"/> RCI Cablehead, TTRM Sub, GR, Power Section & Electronics. Single Packer Section Draw Down Section Pump Thru Section Fluid Characterization Aux Power Section Six Tank Section Tank Control Section Extraction Sub 4 Litre Tank 4 Litre Tank Sample View R/C Sensor	<p>Pressure Survey: <input checked="" type="checkbox"/> Stratigraphic <input checked="" type="checkbox"/> Gradients <input type="checkbox"/> Fluid Contacts</p> <p>Formation Sampling: <input type="checkbox"/> Regular Sampling <input type="checkbox"/> PVT Sampling</p> <p>Permeability Estimation: <input type="checkbox"/> Horizontal <input type="checkbox"/> Anisotropy</p> <p>Others (specify):</p>
---	---	--

Pressure Survey									
-----------------	--	--	--	--	--	--	--	--	--

Time	Test #	Depth (m)	TVD (m)	Pretest Vol. (cc)	Hydrostatic Pressure (kPa)	Final Shut-In Pressure (kPa)	Calculated Perm. (md)	Comments	
	1	1343.0	1343.0		17086.81			No Seal	
	2	1345.0	1345.0		17120.84			No Seal	
	3	1347.0	1347.0		17150.80			No Seal	
	4	1351.0	1351.0		17210.70			No Seal	
	5	1390.5	1390.5		17724.44			Tight Test	
	6	1345.4	1345.4		17119.26			No Seal	
	7	1343.5	1343.5		17082.78			No Seal	
	8	1342.5	1342.5		17063.11			No Seal	
	9								
	10	2062.5	2062.5		26209.39			No Seal	
	11	2062.0	2062.0		26505.80			No Seal	
	12	2058.5	2058.5		26143.71			No Seal	
	13	2058.0	2058.0		26137.82			No Seal	
	14	2057.5	2057.5		26128.86			No Seal	
	15	1967.5	1967.5		25009.60			No Seal	
	16	1525.5	1525.5		19411.42			No Seal	
	17	1525.2	1525.2		19404.60			No Seal	
	18								
	19								
	20	1303.0	1303.0		16590.76			No Seal	
	21	1149.5	1149.5		14645.48			No Seal	
	22	1150.5	1150.5		14669.46			No Seal	
	23	989.0	989.0		12603.41			No Seal	
	24	987.5	987.5		12581.32			No Seal	
	25	796.0	796.0	5	10142.05	8039	29.20	Tight Test	
	26	789.0	789.0		10051.01			No Seal	
	27	761.5	761.5		9703.14			No Seal	
	28	758.5	758.5		9661.98			No Seal	

Remarks: **Plus Straddle Packer**

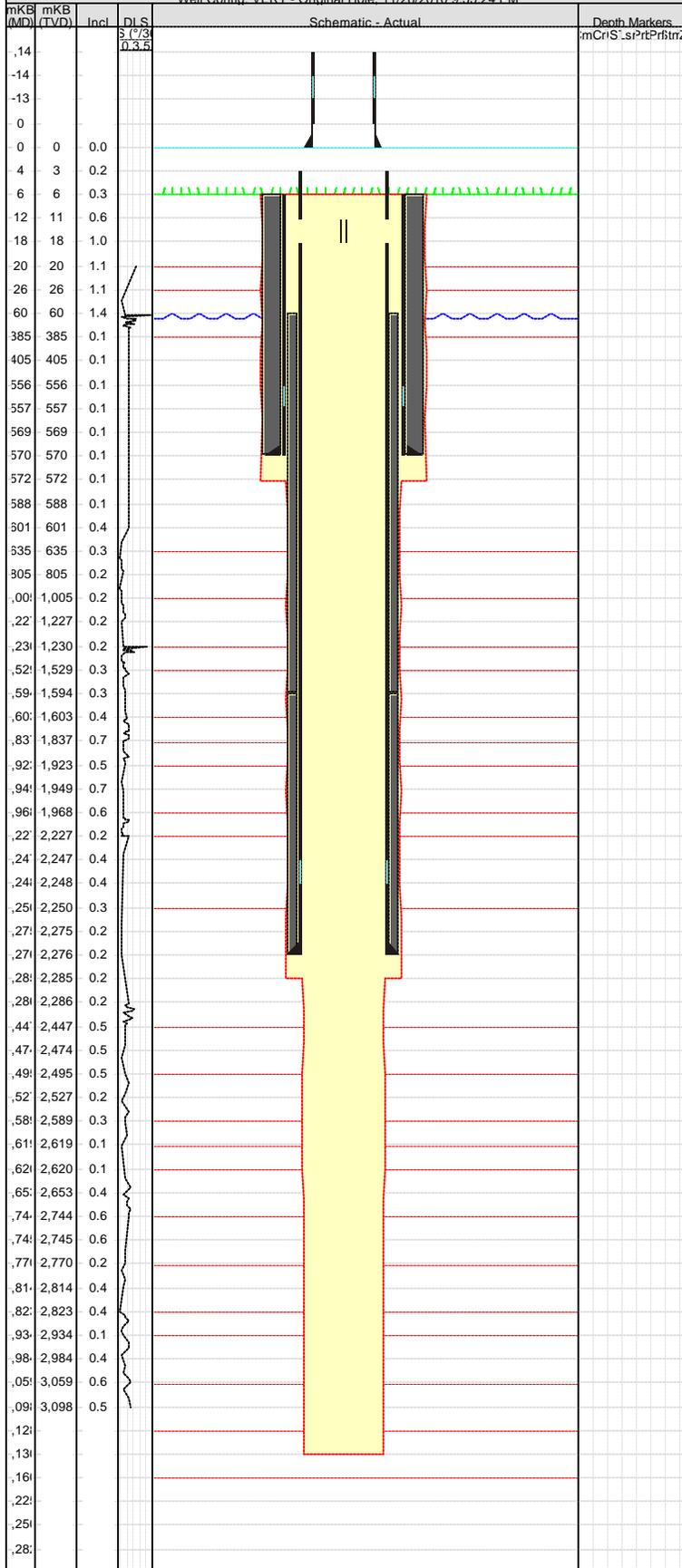
Appendix K – Complete Well Summary

Complete Well Summary

NALCOR ET.AL FINNEGAN #1

API/UWI N/A		Operator NALCOR ENERGY-OIL AND GAS INC.	
Original KB Elevation (m) 125.00	KB-Ground Distance (m) 6.25	Spud Date 9/9/2010	Rig Release Date 12/5/2010
Surface Legal Location 50:5:40.893N / 57:36:27.955W		Latitude (DMS) 0° 0' 0" N	Longitude (DMS) 0° 0' 0" E

Well Config: VERT - Original Hole, 11/28/2010 9:35:24 PM



Original Hole		Wellbore API/UWI	Bottom Hole Legal Location	Profile Type Vertical	KO MD (mKB)	VS Dir (°) 0.00
Proposed Deviation Survey		Deviation Survey Ets Dir. survey for Original Hole				
Size (mm)		Act Top (mKB)		Act Btm (mKB)		
444.5		6.25		572.00		
311.0		572.00		2,285.00		
216.0		2,285.00		3,130.00		

PBTDs			
Date	Depth (mKB)	Method	Comment

Formations					
Formation Name	Geologic Age	Element Type	H2S (%)	Final Top MD (mKB)	Final Top TVD (mKB)
ALLOCHTHON "A" SURFACE			0.00	20.00	20.00
ALLOCHTHON "B"			0.00	635.00	634.79
ALLOCHTHON "C" (FAULT)			0.00	1,230.00	1,229.78
ALLOCHTHON "D"			0.00	1,529.00	1,528.77
GOOSE TICKLE			0.00	1,837.00	1,836.76
TABLE POINT			0.00	1,923.00	1,922.75
AGUATHUNA			0.00	2,227.00	2,226.74
CATOCHE			0.00	2,589.00	2,588.72
BOAT			0.00	2,619.00	2,618.72
HARBOUR					
WATTS BIGHT			0.00	2,770.00	2,769.72
CAMBRIAM - BERRY HEAD			0.00	2,823.00	2,822.72
PETIT JARDIN			0.00	2,934.00	2,933.72
MARCHE POINT			0.00	3,059.00	3,058.72
FINAL (TD)			0.00	3,128.00	
HAWKE BAY				3,160.00	

Deviation Surveys			
Date	Description	Prop?	Definitive?
9/9/2010	Ets Dir. survey for Original Hole	No	No

Reservoirs			
Reservoir Name	Depth Top (mKB)	Depth Btm (mKB)	Depth Res Datum (m (SS))

Production, <Set Depth?>mKB							
Run Date	Centralizers	Scratchers	Drift M...				
OD (mm)	Item Description	Btm (mKB)	Jts	ID (mm)	Wt (daN)	Grade	Top Thread
		0.00	1				

Liner, <Set Depth?>mKB							
Run Date	Centralizers	Scratchers	Drift M...				
OD (mm)	Item Description	Btm (mKB)	Jts	ID (mm)	Wt (daN)	Grade	Top Thread
177.8	Casing Joints	-13.72	85	157.1	47,794.9	L-80	
177.8	Float Collar	-13.32	1	157.1	16.9	L-80	
177.8	Casing Joints	-0.40	1	157.1	546.8	L-80	
177.8	Float Shoe	0.00	1		16.9	L-80	

Surface, 570.00mKB							
Run Date	Centralizers	Scratchers	Drift M...				
OD (mm)	Item Description	Btm (mKB)	Jts	ID (mm)	Wt (daN)	Grade	Top Thread
339.7	Casing Joints	556.16	43	320.4	43,745.3	K-55	Buttress Thread
339.7	Float Collar	556.87	1	320.4	56.5	K-55	Buttress Thread
339.7	Casing Joints	569.27	1	320.4	986.3	K-55	Buttress Thread
340.0	Float Shoe	570.00	1				Buttress Thread

Intermediate, 2,276.00mKB							
Run Date	Centralizers	Scratchers	Drift M...				
OD (mm)	Item Description	Btm (mKB)	Jts	ID (mm)	Wt (daN)	Grade	Top Thread
		3.53	0				
244.5	Casing Joints	11.53	1	222.4	507.9	L-80	BT & C
		17.93	1				
244.5	Casing Joints	588.24	41	222.4	36,205.2	L-80	BT & C
244.5	Casing Joints	601.05	1	222.4	813.2	L-80	
244.5	Casing Joints	2,247.28	120	222.4	104,508.2	L-80	8 -RD
244.5	Float Collar	2,247.92	1	222.4	40.6	L-80	8 -RD
244.5	Casing Joints	2,275.31	2	222.4	1,738.8	L-80	8 -RD
244.5	Float Shoe	2,276.00	1				8 -RD

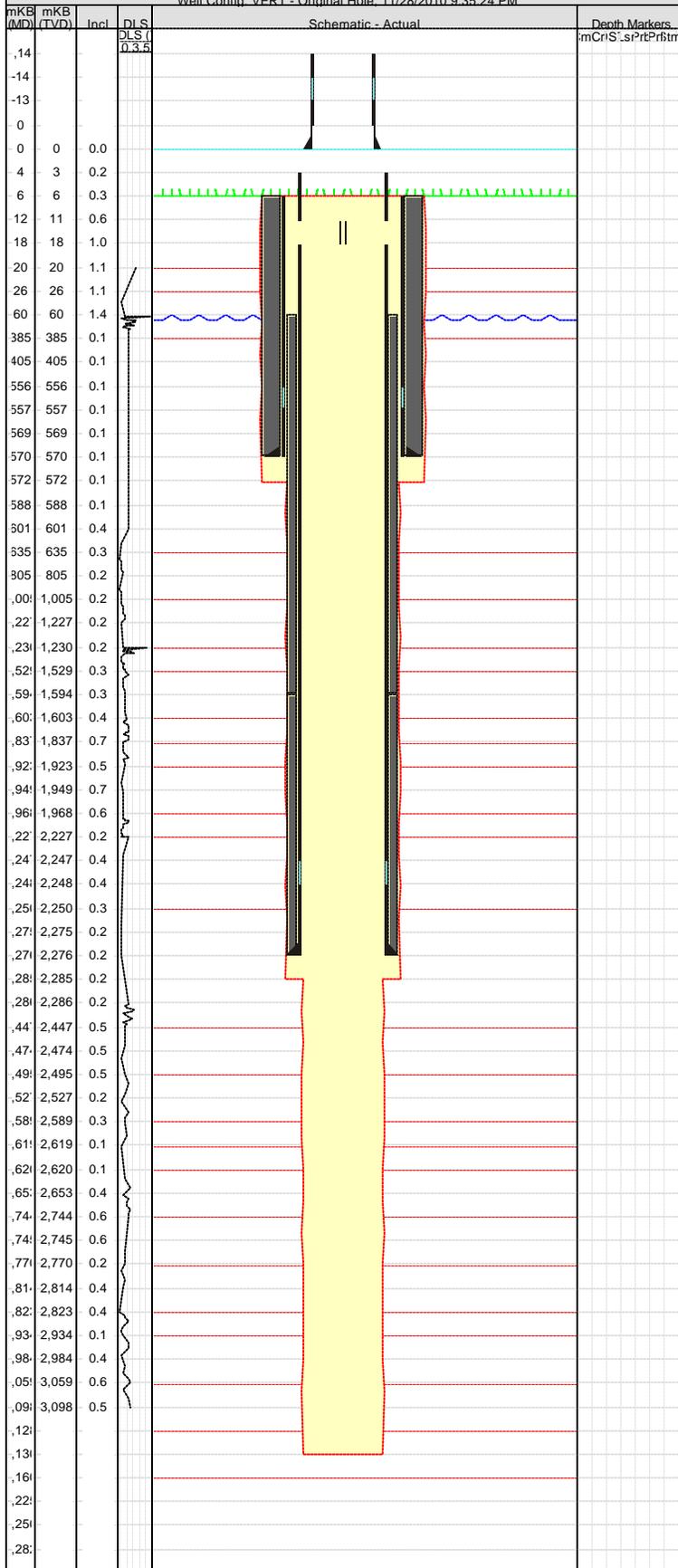
data last updated on 12/6/2010 11:32 AM gmt
printed on Monday, December 06, 2010

Production, casing, <Start Date?>		
Cementing Company	Evaluation Method	Cement Evaluation Results

Complete Well Summary

NALCOR ET.AL FINNEGAN #1

Well Config: VERT - Original Hole, 11/28/2010 9:35:24 PM



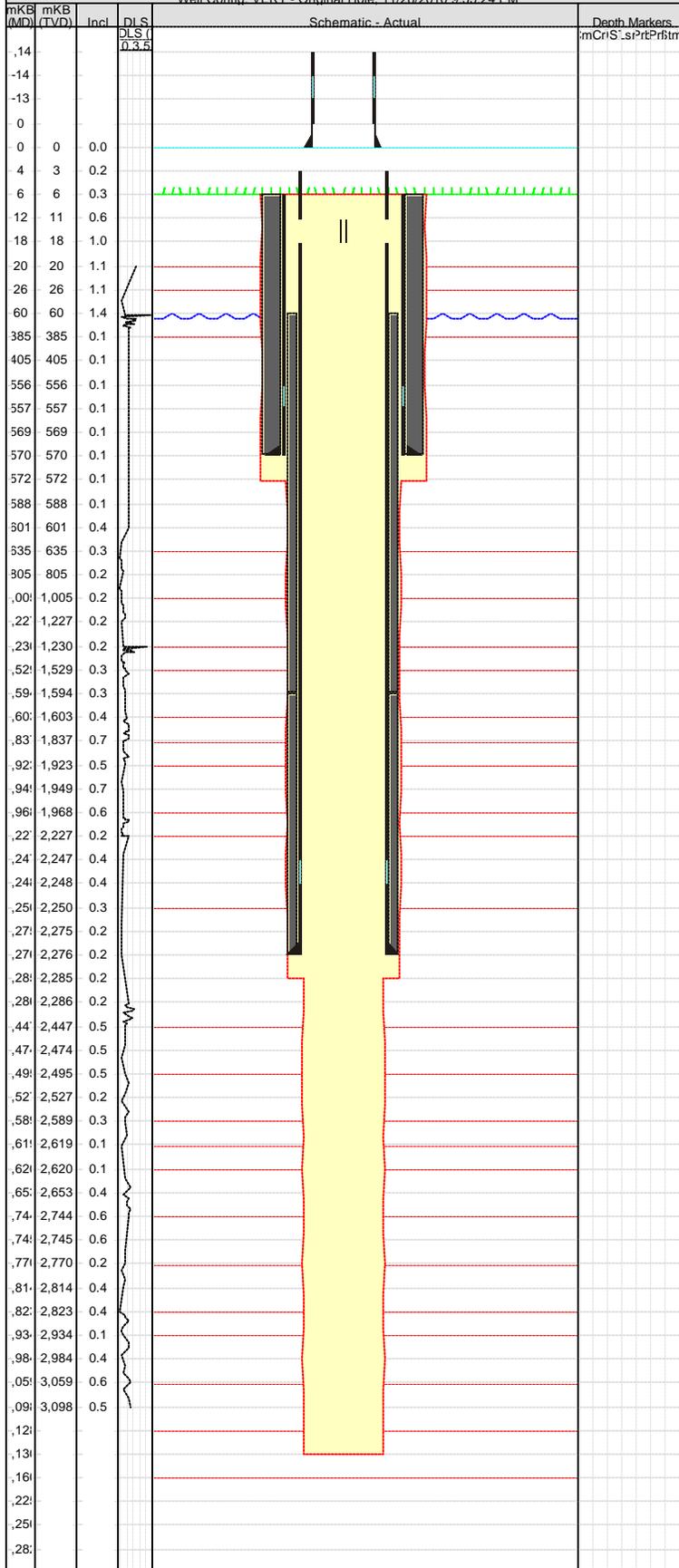
Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?				
1				No				
	Fluid Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	V (m³)	Fluid Des		
Surface, casing, 9/17/2010 19:45								
Cementing Company		Evaluation Method		Cement Evaluation Results				
BJ Services Company		Returns to Surface		13 m3 returns				
Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?				
1		6.20	570.00	Yes				
	Fluid Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	V (m³)	Fluid Des		
Intermediate Casing Cement, casing, 11/7/2010 21:35								
Cementing Company		Evaluation Method		Cement Evaluation Results				
BJ Services Company		Returns to Surface		Estimated top 60 M.				
Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?				
1	lead	60.00	1,594.00	Yes				
	Fluid Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	V (m³)	Fluid Des		
Stg No.	Description	Top (mKB)	Btm (mKB)	Full Return?				
2	Tail	1,594.00	2,276.00	Yes				
	Fluid Class	Amount (1000kg)	Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	V (m³)	Fluid Des		
Other In Hole								
OD (mm)	Description	Top (mKB)	Btm (mKB)	ID (mm)	Make	Model		
Install Date	Type	Make	WP (kPa)	Size (mm)	Last Overhaul ...			
Wellhead Components								
Make	Model	S...	Top Conn	Top Sz (mm)	Btm Conn	Btm Sz (mm)	Description	WP (kPa)
General Notes								
Date	Comment							
Drilling - original, 8/28/2010 07:00								
Job Category	Primary Job Type	Start Date	End Date	Cost Type				
Drilling	Drilling - original	8/28/2010	12/5/2010					
Target Formation	Tgt Depth (m...)	AFE Number	Total AFE	Total Cost	Final Inv. Cost			
Aguathuna	3,250.00			8,253,498.42				
Summary								
DRILLED TO 3130M TOTAL DEPTH								
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				
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				
Ian Oleary	Nalcor Energy	Drilling Manager		709 725 4365				
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 Drilling	Rig Manager		709 765 0635				
Randy Kavanagh	Waterford	Wellsite Supervisor		709 363 7261				
Tim Kennedy	Waterford	Wellsite Supervisor		780 913 1869				
Well Site Office	Well Site Office	Well Site Office		709 636 4147				
BHA #1, Drilling Assembly								
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull				
1	444.5	XRTC	1-1-5-	1-2-WT-G-E-0.00-...				
Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...)	Bit Hrs Out ...	IADC Bit Dull			
0.00	140.00	140.00	35.75	35.75	1-2-WT-G-E-0.00-...			
String Components								
SMITH XRTC, STAB-NEAR BIT, SHOCK SUB, STAB-STRING, X/O, DC (9.00 IN), DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), BELL SUB, DC (6.50 IN), Drill pipe - Stands, Drill pipe - Singles								

data last updated on 12/6/2010 11:32 AM gmt
printed on Monday, December 06, 2010

Complete Well Summary

NALCOR ET.AL FINNEGAN #1

Well Config: VERT - Original Hole_ 11/28/2010 9:35:24 PM



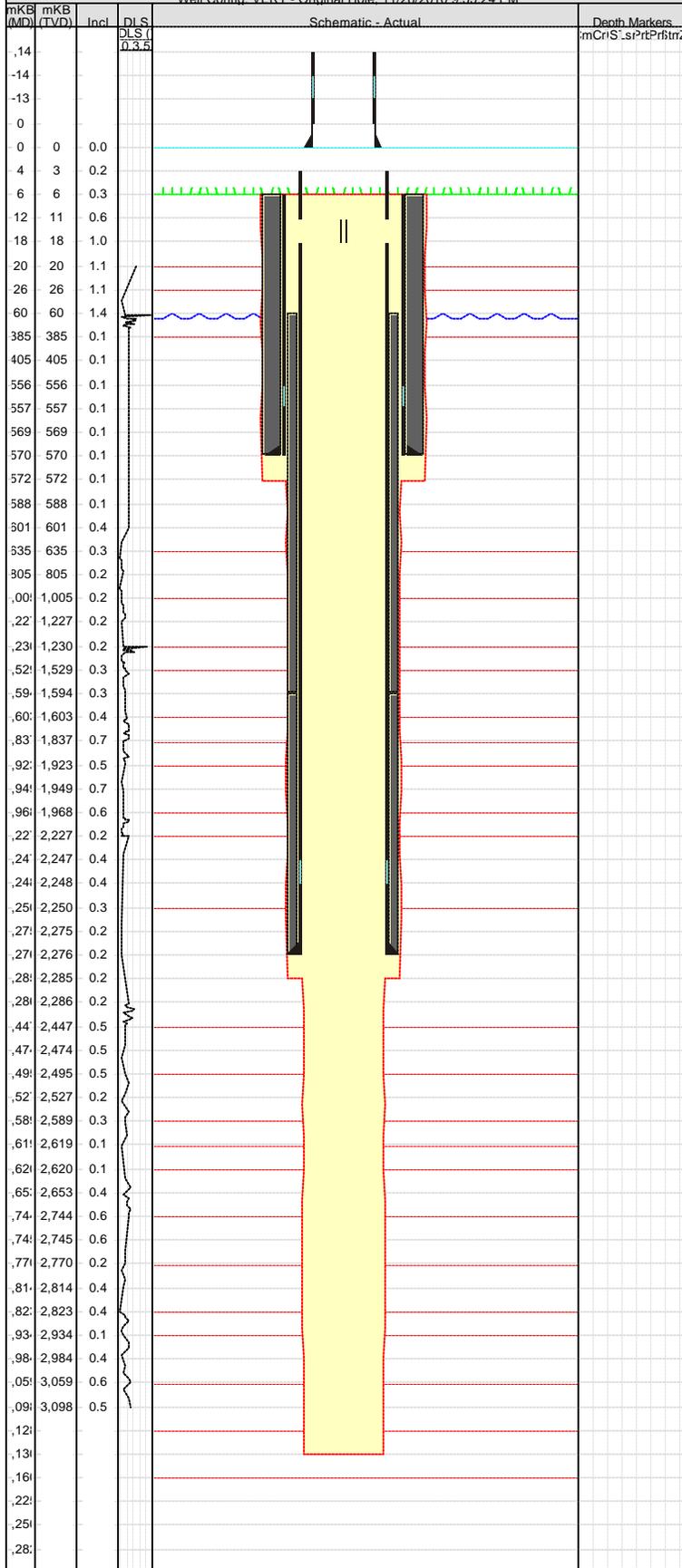
BHA #2, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
2	444.5	T44	4-4-5	3-3-BT-M-F-3.00-...	
Depth In (mKB)	140.00	Depth Out (mKB)	572.00	Drilled (m)	440.00
Drill Time (...)	94.25	Bit Hrs Out ...	94.25	IADC Bit Dull 3-3-BT-M-F-3.00-...	
String Components					
REED T44, NB STAB, FLOAT SUB, DC (9.00 IN), DC(11.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #3, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
3	311.0	MSI616	---	1-1-CT-A-X-1.00-...	
Depth In (mKB)	572.00	Depth Out (mKB)	1,113.00	Drilled (m)	747.00
Drill Time (...)	51.25	Bit Hrs Out ...	51.25	IADC Bit Dull 1-1-CT-A-X-1.00-F-...	
String Components					
SMITH MSI616, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #4, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
4	311.0	MSF 716	4-2-2-	0-1-CT-H-X-1.00-...	
Depth In (mKB)	1,113.00	Depth Out (mKB)	1,225.00	Drilled (m)	110.00
Drill Time (...)	14.25	Bit Hrs Out ...	14.25	IADC Bit Dull 0-1-CT-H-X-1.00-...	
String Components					
REED MSF 716, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #5, <Drill String Name?>					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
5				-----	
Depth In (mKB)		Depth Out (mKB)		Drilled (m)	
Drill Time (...)		Bit Hrs Out ...		IADC Bit Dull -----	
String Components					
VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, BELL SUB, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #6, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
6	311.0	MSF 813S	S-4-3-	3-4-BT-S-X-1.00-...	
Depth In (mKB)	1,225.00	Depth Out (mKB)	1,283.00	Drilled (m)	58.00
Drill Time (...)	20.50	Bit Hrs Out ...	20.50	IADC Bit Dull 3-4-BT-S-X-1.00-...	
String Components					
REED MSF 813S, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #7, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
7	311.0	GF135V0D1VCPS	5-1-7-	3-3-BT-A-7-1.00-...	
Depth In (mKB)	1,290.00	Depth Out (mKB)	1,341.00	Drilled (m)	21.00
Drill Time (...)	16.00	Bit Hrs Out ...	16.00	IADC Bit Dull 3-3-BT-A-7-1.00-W-...	
String Components					
SMITH GF135V0D1VCPS, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #8, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
8	311.0	M4528	6-3-7-	1-1-FC-A-E-0.00-...	
Depth In (mKB)	1,341.00	Depth Out (mKB)	1,406.00	Drilled (m)	65.00
Drill Time (...)	46.50	Bit Hrs Out ...	46.50	IADC Bit Dull 1-1-FC-A-E-0.00-F-...	
String Components					
REED M4528, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #9, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
9	311.0	MSI816	---	1-1-CT-T-X-0.00-...	
Depth In (mKB)	1,407.00	Depth Out (mKB)	1,471.00	Drilled (m)	64.00
Drill Time (...)	19.50	Bit Hrs Out ...	19.50	IADC Bit Dull 1-1-CT-T-X-0.00-...	
String Components					
SMITH MSI816, DOG SUB, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #10, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
10	311.0	MSI816	---	2-2-WT-A-XO-1.0-...	
Depth In (mKB)	1,471.00	Depth Out (mKB)	1,494.00	Drilled (m)	23.00
Drill Time (...)	33.50	Bit Hrs Out ...	33.50	IADC Bit Dull 2-2-WT-A-XO-1.00-...	
String Components					
SMITH MSI816, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), X/O, DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					
BHA #11, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
11	311.0		---	8-8-BT-A-X-0.00-...	
Depth In (mKB)	1,494.00	Depth Out (mKB)	1,522.00	Drilled (m)	28.00
Drill Time (...)	30.00	Bit Hrs Out ...	30.00	IADC Bit Dull 8-8-BT-A-X-0.00-...	
String Components					
REED, VERTITRAK, SUB - FILTER, FLOAT SUB, STAB/REAMR-3 PT, DC (9.00 IN), DC (9.00 IN), X/O, DC (8.00 IN), DC (8.00 IN), JARS-HYD/MECH, BELL SUB, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					

data last updated on 12/6/2010 11:32 AM gmt
 printed on Monday, December 06, 2010

Complete Well Summary

NALCOR ET.AL FINNEGAN #1

Well Config: VERT - Original Hole, 11/28/2010 9:35:24 PM



BHA #22, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
22	216.0	MSI813WUESPX	---	1-2-CT-A-X-0-BT...	
Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...)	Bit Hrs Out ...	IADC Bit Dull
2,285.00	2,855.00	1,103.00	114.50	114.50	1-2-CT-A-X-0-BT...
String Components					
SMITH MSI813WUESPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					

BHA #23, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
23	216.0	M713-A3D	---	-----	
Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...)	Bit Hrs Out ...	IADC Bit Dull
2,855.00	2,989.00	136.00	15.75	15.75	-----
String Components					
REED M713-A3D, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					

BHA #24, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
24	216.0	MSI816WEBPX	8-1-6-	1-1-BT-A-X-1.00-...	
Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...)	Bit Hrs Out ...	IADC Bit Dull
2,989.00	3,130.00	141.00	26.00	26.00	1-1-BT-A-X-1.00-C...
String Components					
SMITH MSI816WEBPX, DOG SUB, VERTITRAK, MWD GAMMA SUB, MWD/LWD TOOL, NM DC, FILTER SUB, FLOAT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					

BHA #25, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
25	216.0	EQHD42R	---	0-0-NO-A-0-0.00-...	
Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...)	Bit Hrs Out ...	IADC Bit Dull
				0.00	0-0-NO-A-0-0.00-...
String Components					
SECURITY EQHD42R, BIT SUB, DC (6.50 IN), X/O, JARS-HYD/MECH, X/O, DC (6.50 IN), X/O, HWDP(4.5 IN), Drill pipe - Stands, Drill pipe - Singles					

BHA #26, Drilling Assembly					
BHA No.	Size (mm)	Model	IADC Codes	IADC Bit Dull	
26	216.0	EQHD42R	---	-----	
Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (...)	Bit Hrs Out ...	IADC Bit Dull
2,196.00	2,220.00	24.00	3.00	3.00	-----
String Components					
SECURITY EQHD42R, BIT SUB, X/O, Drill pipe - Stands, Drill pipe - Singles					

Deviation Surveys	
Date	Description
9/9/2010	Ets Dir. survey for Original Hole

Logs				
Date	Type	Top (mKB)	Botm (mKB)	Logging Company

Cores					
Core No.	Type	Top (mKB)	Botm (mKB)	Recov (m)	Wellbore

DST Data				
Date	Type	Zone	Depth Top (mKB)	Depth Botm (mKB)

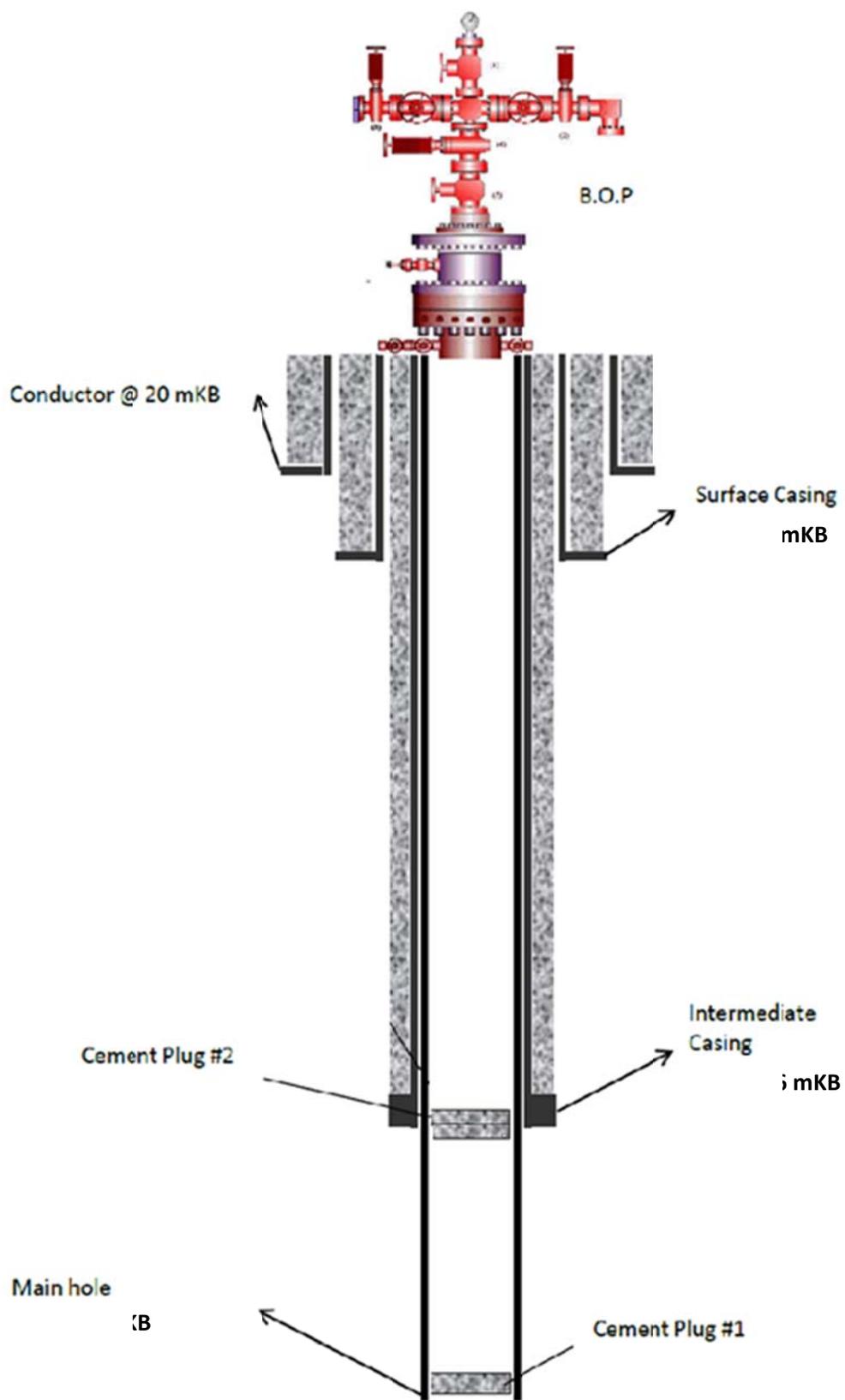
Leak Off and Formation Integrity Tests				
Test Date	Last Casing String Run	P (Surf) (kPa)	Depth (mKB)	Dens Fluid (kg/m³) Leak off?
				No

Schematic Annotations	
Depth (mKB)	Annotation

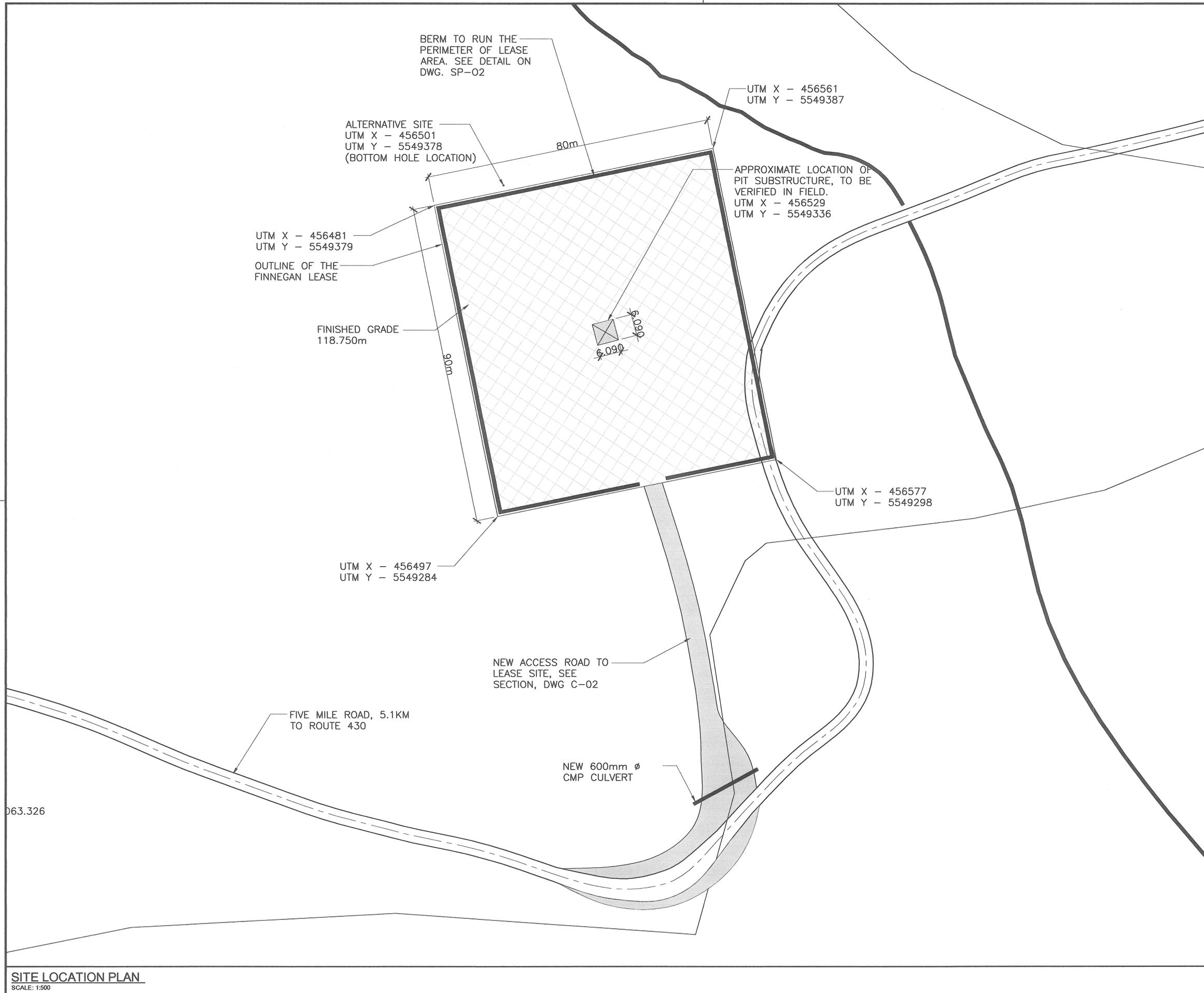
Equipment Problems						
Failure Date	Failure Description	Type	Cause	Failed Item	Resolved Date	Est Fail Cost

data last updated on 12/6/2010 11:32 AM gmt
 printed on Monday, December 06, 2010

Appendix L – Well Schematic



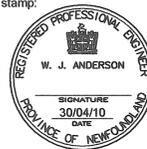
Appendix M – Legal Survey



SITE LOCATION PLAN
SCALE: 1:500

permit:

 PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
 This Permit Allows
ANDERSON ENGINEERING CONSULTANTS LTD.
 To practice Professional Engineering
 in Newfoundland and Labrador.
 Permit No. as issued by APEGN 80092,
 which is valid for the year 2010.

 W. J. ANDERSON REGISTERED PROFESSIONAL ENGINEER PROVINCE OF NEWFOUNDLAND SIGNATURE 30/04/10 DATE	designed by: W.J.ANDERSON
	checked by: W.J.ANDERSON
	approved by: W.J.ANDERSON
	date: 30/04/10

NOTES:

NO.	REVISION	DATE

A - DETAIL / SECTION NO.
 B - DWG. NO. WHERE DETAILED

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CLIENT:
 NALCOR ENERGY INC.
 P.O. BOX 12800
 500 COLUMBUS DRIVE
 ST. JOHN'S, NL, A1B 0C9

PROJECT:
 FINNEGAN LEASE

DRAWING TITLE:
 SITE PLAN

DRAWN BY: J.ROBERTS	DATE: 30/04/10
DEVELOPED BY: W.J.A	SCALE: 1:500
PROJECT NO: 100685	

DRAWING NO: C-01	REV NO: R0
----------------------------	---------------

Appendix N – List of Acronyms

List of Acronyms

BOP – Blow Out Preventer

BTC – Buttress Type Connection

daN – Decanewton

kPa - Kilopascals

mKB – Meters from the Kelly Bit

ROP – Rate of Penetration

RPM – Revolutions per Minute

TD – Total Depth

TVD – Total Vertical Depth

VSP - Vertical Seismic Profile

Appendix O – VSP

Zero Offset VSP

REPORT

For



Well: Finnegan-1
Field: Finnegan
Location: Newfoundland & Labrador

Report Status:	Final Report
Authors:	Nelson Oriach
Reviewer :	Nicholas Dray
Date:	January, 2011

VSFusion,
10300 Town Park Drive, Houston, Texas, 77072, United States.
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In the processing and interpretation of the data, VSFusion employees have relied on experience and have exercised their best judgment. However, since all interpretations are opinions based on inferences from acoustical or other measurements, we cannot and we do not guarantee the accuracy or the correctness of any interpretations. As such, we shall not be liable for any loss, damages or expenses resulting from reliance on such interpretation.

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- Enclosure 7: L-plot Composite Display (5 in/sec)

1 ACQUISITION AND PROCESSING

1.1 INTRODUCTION

Baker Atlas conducted a Zero Offset VSP Survey for **Nalcor Energy Inc.** in their **Nalcor Et Al Finnegan#1** well, located in Finnegan field, Newfoundland & Labrador County, Canada.

The objectives of the VSP survey were to:

- Provide time-depth information
- Generate a VSP corridor stack

The survey was acquired in two runs. At the time of the second survey, the well had been drilled to a depth of 3020 m and cased to a depth of 570 m. All measured depths are referenced to the Kelly Bushing (*KB*) elevation of 125 m above MSL. The ground elevation at the wellhead was 118.75 m above mean sea level.

The well was considered to be vertical in all computations.

Table 1 is a summary of the survey acquisition information.

Table 1: Survey information

Run #	Survey Type	Depth Range from KB	# of levels	Tool
1	VSP	25 – 2275 m	144	Geochain
2	VSP	550 – 3010 m	64	Geochain

1.2 DATA ACQUISITION

The first survey began at 03:11 *hrs* on November 05, 2010 and was finished at 19:08 *hrs* on the same day. The second survey began at 23:14 *hrs* on November 28, 2010 and was finished at 05:11 *hrs* the next day.

The source used for the zero offset VSP survey was a four airgun array deployed in a pre-dug pit which was positioned 73.42 m from the wellhead at an azimuth of 170.9 degrees from North. The elevation of the source was 115.75 m above MSL.

A Geochain downhole array comprising four 3-component receivers at 15m intervals was used to record the survey.

At the start of each survey, the wireline depth sensor was zeroed at the KB elevation and the tool was lowered down the well. As the tool was lowered down the well, it was stopped at a number of depths to check the equipment performance and depth control before reaching maximum depth.

Data was gathered at 208 downhole receiver stations (both surveys). There were a total of 458 files acquired during the survey.

The zero offset VSP survey configuration is shown on Figure 2. Enclosure 1 contains the Field Engineer's report for the survey.

For depth correlation, a gamma-ray wireline tool was placed at the top of the tool to check on the geophone depth locations. As the receiver descends into the borehole, measurements are taken periodically using the gamma ray tool. Readings from the original wireline gamma ray and the receiver gamma ray are correlated. If a difference between the two gamma ray readings is found, the geophone tool depth is corrected to the original gamma-ray log depth. This ensures that the borehole seismic data will depth tie the wireline logs.

1.3 DATA PROCESSING

1.3.1 Edit and Stack Raw Data

The three component digital data were reformatted and displayed. To determine the true digital start time, the true reference signal traces were examined and their onset times were picked. Each downhole geophone trace was subsequently shifted by the first break time value of the corresponding reference hydrophone trace. This shift will reference the downhole geophone traces to the depth of the source.

The downhole geophone traces for each depth level were edited as necessary and then stacked using a median summation algorithm. First arrival times were picked for each stacked trace. *Panel 2 of Enclosure 2* displays the stacked raw data for the velocity survey.

The vertical component was used for VSP processing and velocity analysis.

The accuracy of the depth sensor was checked by comparing the first-arrival times of the same levels occupied during the down and up runs of the tool. The time agreement was found to be acceptable. The data occupied during the down trip of the tool was not used in any of the computations.

1.3.2 Velocity Survey Computations

The observed first arrival times at each depth were converted to vertical times and then referenced to the seismic reference datum (SRD) of sea level using a correction velocity of 4,000 m/sec. These time-depth pairs were then used as the input data for the velocity survey computations. The computed average, RMS, and interval velocities are listed in Section 2 and displayed in Enclosure 2. The first arrival wavelet for some levels was distorted and the picked times were not commensurate with the surrounding levels. These levels were not used to calculate interval velocities. Over short depth intervals, small differences in time picks can give rise to large changes in interval velocity. The geophone levels not used in the computations are denoted on the time / depth listing by an asterisk and on the display by a small red box on the average/interval velocity track.

Acoustic Log Calibration

The input log data consisted of acoustic, density and gamma ray logs over the interval of 2102.1 – 3206.7 ft. measured depth below KB.

Prior to performing the acoustic log calibration, the checkshot / VSP data are edited to remove levels affected by noise or casing arrivals. The data are then interactively examined during the calibration routine to check the first arrival times and ensure that no anomalous data are used.

For the log calibration, the acoustic log is integrated to produce a depth-indexed time log. The difference between the corrected checkshot time of the shallowest checkshot level (within the logged interval) and the corresponding log derived time is computed and the time log is then shifted by adding this value to all values of the acoustic time log. This will force the acoustic log to time tie the checkshot time at the depth of the first checkshot.

At each checkshot depth the time difference (drift) between the checkshot times and the acoustic times are computed. Calibration points are selected at discrete depth levels. The depths of these calibration points are chosen using two criteria. The first is that the calibration points divide the drift curve into intervals that contain approximately linear drift. The second is that the calibration points occur at a depth where a velocity contrast (typically formation boundaries) already exists. Choosing the calibration point at an area that exhibits a velocity change insures that no new (calibration generated) velocity contrasts are created. The calibration points used in the acoustic calibration are indicated with a triangular mark on the drift curve displayed in 2.

Over each calibration interval, a constant time shift for each log sample is computed using the linear drift curve slope value. This constant time is added to all acoustic log values over the calibration interval. This effectively shifts the acoustic log over the calibration interval to match the check shot generated velocity values. This process is done over each calibration interval on the acoustic log. The calibrated log is then re-integrated and a residual drift curve is computed using the same methodology discussed above. The residual drift curve is shown in Enclosure 2.

Sections 2.1, 2.2, 2.3, & 2.4 contain the tabulated depth-time and velocity tables. Sections 3.1 & 3.2 contain the acoustic log calibration details.

1.3.3 ZVSP Processing

Spherical Divergence Correction

A compensation for amplitude decay due to spherical divergence was applied to the stacked vertical component data using an exponential gain function of $T^{**1.4}$ (where T is the recorded time).

A display of the gained VSP total wavefield is shown in panel 1 of Enclosure 4 and an f-k analysis display of the gained VSP total wavefield is shown as Figure 3. A low velocity downgoing tube wave can be seen in the data. This is attenuated by subsequent processing and does not have an adverse effect on the final corridor stack.

A display of the edited VSP total wavefield is shown in panel 2 of Enclosure 3.

Wavefield Separation

Before wavefield separation, the shallow, coarsely spaced receivers are removed. This is done to ensure that the data does not become spatially aliased during the separation process.

The upcoming and downgoing wavefields were separated using a median filter. The VSP total wavefield was time aligned using the direct arrival time of each trace. This time shift will align the compressional P downgoing wavefield. A constant 200 ms shift is then applied to ensure that no data is lost when the time shifts are removed.

An 9-trace median filter was applied to the aligned VSP total wavefield. This filter will pass the downgoing wavefield. The downgoing wavefield is then arithmetically subtracted from the total wavefield. This subtracted dataset will contain the upcoming P waves, as well as any residual wave energy and noise.

A zero phase 7(18)-110(36) Hz (dB/Oct) bandpass filter was applied to the downgoing and residual upcoming wavefield.

The downgoing wavefield after wavefield separation is shown in panel 2 of Enclosure 3.

Residual Upcoming Wavefield Enhancement

The residual upcoming wavefield is time aligned to two-way time. A 9-trace median filter was applied to the upcoming wavefield to remove unwanted wave modes and unwanted residual energy left in the dataset after the wavefield separation and the high amplitude noise on the rest of data was muted from further processing.

A zero phase 7(18)-110(36) Hz (dB/Oct) bandpass filter was applied to the enhanced upcoming wavefield. The enhanced upcoming wavefield is shown in panel 4 of Enclosure 3.

VSP Downwave Deconvolution

VSP downwave deconvolution is a deterministic process. Because the downgoing wavetrain can be isolated from the VSP dataset, the reflectivity response of the earth at the well location is known for the VSP source wavelet. The downgoing VSP wavetrain contains the direct arrival source wavelet followed by multiple arrivals. Every event that follows the direct arrival is a downgoing multiple reflection.

The deconvolution process will analyze the downgoing wavetrain and compute an operator that will collapse a user specified portion of the downgoing wavetrain to a unit spike. This operator is then applied to the upcoming waves. The VSP downwave deconvolution will shape the input source wavelet to zero phase and collapse upcoming multiple reflections generated above the depth of the deepest receiver.

A 1007 ms operator was used to collapse the downgoing wavetrain to a unit spike. A zero phase 07(18)-110(36) Hz (dB/Oct) bandpass filter was applied to the deconvolved data. The deconvolved downgoing wavefields is shown in panel 3 of Enclosure 3.

Datum Correction

The upcoming wavefield data was time corrected to seismic datum using a correctional velocity of 4,000 m/sec.

Post Deconvolution Median Filter

A 11-trace median filter was applied to the datum corrected upcoming waves. This filter will remove random high frequency noise generated by the deconvolution process. A zero phase 7(18)-110(36) Hz (dB/Oct) bandpass filter was applied to the median filtered upcoming wavefield. The post deconvolution median filtered upcoming wavefield is shown in panel 5 of Enclosure 3.

Corridor Mute and Stack

A narrow time window close to the first arrival time on each trace was carefully chosen. The time window is designed to include only traces whose reflection character is similar enough to be included in the stack and is kept relatively short to exclude long travel path reflections. The data that lies outside of the stacking corridor is muted. The corridor window is shown in panel 7 of the Enclosure 3.

The data in this time window is then stacked to generate a single VSP corridor stack trace. This stacked trace is repeated 8 times for visual clarity and represents the seismic response at the wellbore.

A zero phase 7(18)-110(36) Hz (dB/Oct) bandpass filter was applied to the corridor stacked data. The corridor stack, normal and reverse polarity, is shown in *panel 8 and panel 9* of Enclosure 3.

Bandpass filters of 7(18)-110(36), 7(18)-90(36), 7(18)-70(36), 10(18)-50(36), and 7(18)-30(36) Hz (dB/Oct) were applied to the corridor stack data. Displays of the corridor stacks for both normal and reversed polarities at five frequency bands are included on Enclosure 4 at 5 in/sec (Corridor Stack Display).

Synthetic Seismogram Generation

An acoustic impedance log was computed by multiplication of the calibrated acoustic log with the density log. A primaries only (without transmission loss effects) reflectivity series was derived from the acoustic impedance log. The reflectivity series was then convolved with a seismic wavelet to produce a synthetic seismogram.

The following zero phase bandpass wavelets were used to create the synthetic seismograms:

- 8 – 80 Hz
- 8 – 70 Hz
- 8 – 60 Hz
- 8 – 50 Hz
- 8 – 40 Hz
- 8 – 30 Hz
- 8 – 20 Hz

Low cut slope = 12 dB/octave
High cut slope = 36 dB/octave

The synthetic seismograms and the generated time logs are displayed in Enclosure 6 at normal and reverse polarity at a scale of 5in/sec.

L-Plot Correlation Display

An L-Plot correlation display ties together the depth and time domain properties of the VSP with well log data and synthetic seismograms. The VSP upcoming wavefield is displayed with linear depth trace spacing. Well log data displayed in the depth domain is plotted above the upcoming wavefield using the same depth scale. In this way reflection events can be directly correlated in the depth domain with the well log data.

In addition to the depth domain data, time domain synthetic seismograms and well logs converted to the time domain are also displayed using the same time scale as the upcoming wavefield VSP. The synthetic seismogram and VSP have also been digitally spliced into the supplied surface seismogram at the well location. This allows time domain event correlation between the well generated data and seismic data.

The L-plot is shown as Enclosure 7 at a scale of 5 in/s.

Polarity

For VSP data after deconvolution, normal polarity shows a positive reflection coefficient as a peak. This corresponds to SEG convention.

1.4 ACQUISITION PARAMETERS

Client: Nalcor Energy Inc.
Well: Nalcor et al Finnegan #1
Field: Finnegan
Location: Newfoundland & Labrador County, Canada
Survey Type: Zero Offset VSP
Date Survey 1st Run: 5 November, 2010
Date Survey 2nd Run: 28 November, 2010
Wireline Contractor: Baker Atlas
Casing: 339.7mm from 0 to 570 m MDKB

Total Depth: 3,020 m MDKB

Elevations:

Kelly Bushing Elevation: 125 m above mean sea level
 Ground Elevation at Wellhead: 118.75 m above mean sea level
 Seismic Datum: mean sea level

Recording System:

Type: Avalon ACQ
 Format: RCD
 Correlated Record Length: 6 seconds
 Sample Rate: 1 msec

Geophone

Geophone Type: 3 Component, Geochain Array (4 level)
 Total Number of Levels Occupied: 208 levels
 Shallowest Geophone Level: 25 m (K.B.)
 Deepest Geophone Level: 3,010 m (K.B.)
 Quality of Geophone Breaks: Good

Source:

Type: Four air guns in pit
 Source Elevation: 115.75 m above mean sea level
 Easting Source Location: 11.6 m from wellhead
 Northing Source Location: - 72.5 m from wellhead
 Listen Length: 6 Seconds

Acquisition Time:

Tool in Hole: 03:11 on November 05, 2010
 Tool out of Hole: 19:08 on November 05, 2010
 Net Operating Time Run 1: 15 hours 57 minutes
 Tool in Hole: 23:14 on November 28, 2010
 Tool out of Hole: 05:11 on November 28, 2010
 Net Operating Time Run 2: 5 hours 48 minutes

Personnel:

Seismic Observer: J. Jewell
 Client Representative : N. Watson

2 VELOCITY SURVEY COMPUTATIONS

2.1 VELOCITY SURVEY

CLIENT	NALCOR ENERGY INC.
WELL	FINNEGAN-1
AREA	FINNEGAN
CONTRACTOR	BAKER ATLAS
SURVEY DATE	5 & 28 November, 2010
SURVEY UNITS	M
RCVR REF. ELEVATION	125.00 M ABOVE SEA LEVEL
DATUM ELEVATION	0.00 M ABOVE SEA LEVEL
KB ELEVATION	125.00 M ABOVE SEA LEVEL
WELL ELEVATION	125.00 M ABOVE SEA LEVEL
DATUM CORRECT. VELOCITY	4000.00 M /SEC
SOURCE TYPE	AIRGUN
GEOPHONE TYPE	GEOCHAIN
SAMPLE RATE	1.00 MSEC
WELL CASING	

NALCOR ENERGY INC.
WELL

FINNEGAN-1

2.2 SOURCE / RECEIVER GEOMETRY TABLE

SOURCE / RECEIVER GEOMETRY TABLE

RECEIVER REFERENCE ELEVATION = 125.00 M ABOVE SEA LEVEL
SOURCE / RECEIVER COORDINATES ARE REFERENCED TO WELLHEAD
SOURCE / RECEIVER (S-R) OFFSET IS PLAN VIEW

----- RECEIVER -----				----- SOURCE -----				OFFSET
MEASURED DEPTH (DGM) (M)	VERT. DEPTH (M)	X COORD. (M)	Y COORD. (M)	ELEV (ES) (M)	DEPTH (DS) (M)	X COORD. (M)	Y COORD. (M)	(S-R) (M)
25.0	25.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
40.0	40.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
55.0	55.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
70.0	70.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
100.0	100.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
115.0	115.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
130.0	130.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
145.0	145.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
175.0	175.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
190.0	190.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
205.0	205.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
220.0	220.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
250.0	250.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
265.0	265.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
280.0	280.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
295.0	295.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
325.0	325.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
340.0	340.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
355.0	355.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
370.0	370.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
400.0	400.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
415.0	415.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
430.0	430.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
445.0	445.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
475.0	475.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
490.0	490.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
505.0	505.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
520.0	520.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
550.0	550.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
565.0	565.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
580.0	580.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
595.0	595.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
610.0	610.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
625.0	625.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
640.0	640.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
655.0	655.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
670.0	670.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
685.0	685.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
700.0	700.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
715.0	715.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
730.0	730.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
745.0	745.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
760.0	760.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
775.0	775.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4

----- RECEIVER -----				----- SOURCE -----				OFFSET
MEASURED DEPTH (DGM) (M)	VERT. DEPTH (M)	X COORD. (M)	Y COORD. (M)	ELEV (ES) (M)	DEPTH (DS) (M)	X COORD. (M)	Y COORD. (M)	(S-R) (M)
790.0	790.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
805.0	805.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
820.0	820.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
835.0	835.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
850.0	850.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
865.0	865.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
880.0	880.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
895.0	895.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
910.0	910.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
925.0	925.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
940.0	940.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
955.0	955.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
970.0	970.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
985.0	985.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1000.0	1000.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1015.0	1015.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1030.0	1030.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1045.0	1045.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1060.0	1060.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1075.0	1075.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1090.0	1090.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1105.0	1105.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1120.0	1120.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1135.0	1135.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1150.0	1150.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1165.0	1165.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1180.0	1180.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1195.0	1195.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1210.0	1210.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1225.0	1225.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1240.0	1240.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1255.0	1255.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1270.0	1270.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1285.0	1285.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1300.0	1300.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1315.0	1315.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1330.0	1330.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1345.0	1345.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1360.0	1360.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1375.0	1375.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1390.0	1390.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1405.0	1405.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1420.0	1420.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1435.0	1435.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1450.0	1450.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1465.0	1465.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1480.0	1480.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1495.0	1495.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1510.0	1510.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1525.0	1525.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1540.0	1540.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1555.0	1555.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1570.0	1570.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4

----- RECEIVER -----				----- SOURCE -----				OFFSET
MEASURED DEPTH (DGM) (M)	VERT. DEPTH (M)	X COORD. (M)	Y COORD. (M)	ELEV (ES) (M)	DEPTH (DS) (M)	X COORD. (M)	Y COORD. (M)	(S-R) (M)
1585.0	1585.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1600.0	1600.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1615.0	1615.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1630.0	1630.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1645.0	1645.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1660.0	1660.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1675.0	1675.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1690.0	1690.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1705.0	1705.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1720.0	1720.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1735.0	1735.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1750.0	1750.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1765.0	1765.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1780.0	1780.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1795.0	1795.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1810.0	1810.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1825.0	1825.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1840.0	1840.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1855.0	1855.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1870.0	1870.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1885.0	1885.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1900.0	1900.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1915.0	1915.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1930.0	1930.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1945.0	1945.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1960.0	1960.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1975.0	1975.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
1990.0	1990.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2005.0	2005.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2020.0	2020.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2035.0	2035.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2050.0	2050.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2065.0	2065.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2080.0	2080.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2095.0	2095.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2110.0	2110.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2125.0	2125.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2140.0	2140.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2155.0	2155.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2170.0	2170.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2185.0	2185.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2200.0	2200.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2215.0	2215.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2230.0	2230.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2245.0	2245.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2260.0	2260.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2275.0	2275.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2290.0	2290.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2305.0	2305.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2320.0	2320.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2335.0	2335.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2350.0	2350.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2365.0	2365.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4

----- RECEIVER -----				----- SOURCE -----				OFFSET
MEASURED DEPTH (DGM) (M)	VERT. DEPTH (M)	X COORD. (M)	Y COORD. (M)	ELEV (ES) (M)	DEPTH (DS) (M)	X COORD. (M)	Y COORD. (M)	(S-R) (M)
2380.0	2380.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2395.0	2395.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2410.0	2410.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2425.0	2425.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2440.0	2440.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2455.0	2455.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2470.0	2470.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2485.0	2485.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2500.0	2500.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2515.0	2515.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2530.0	2530.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2545.0	2545.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2560.0	2560.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2575.0	2575.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2590.0	2590.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2605.0	2605.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2620.0	2620.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2635.0	2635.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2650.0	2650.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2665.0	2665.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2680.0	2680.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2695.0	2695.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2710.0	2710.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2725.0	2725.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2740.0	2740.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2755.0	2755.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2770.0	2770.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2785.0	2785.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2800.0	2800.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2815.0	2815.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2830.0	2830.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2845.0	2845.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2860.0	2860.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2875.0	2875.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2890.0	2890.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2905.0	2905.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2920.0	2920.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2935.0	2935.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2950.0	2950.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2965.0	2965.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2980.0	2980.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
2995.0	2995.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4
3010.0	3010.0	-0.0	-0.0	118.8	3.0	11.6	-72.5	73.4

NALCOR ENERGY INC.
WELL

FINNEGAN-1

2.3 TIME / DEPTH INFORMATION TABLE

ALL TIMES ARE ONE-WAY TIMES
* = NOT USED IN VELOCITY COMPUTATIONS

DATUM ELEVATION 0.00 M ABOVE SEA LEVEL
DATUM CORRECT. VELOCITY 4000.00 M /SEC

MEASURED GEOPHONE DEPTH (DGM)	RAW TIME PICK (MS)	SRC-REC DIST. PLAN-VIEW (SRC_REC)	COS(I)	TIME CORRECTION COS (MS)	CORRECTION DATUM (MS)	VERTICAL TIME (TGD) (MS)	
25.0	16.1	73.4	0.210	-12.7	-28.9	-25.6	*
40.0	16.5	73.4	0.386	-10.1	-28.9	-22.5	*
55.0	18.0	73.4	0.529	-8.5	-28.9	-19.4	*
70.0	19.5	73.4	0.637	-7.1	-28.9	-16.5	*
100.0	23.0	73.4	0.777	-5.1	-28.9	-11.0	*
115.0	25.4	73.4	0.821	-4.5	-28.9	-8.1	*
130.0	27.3	73.4	0.854	-4.0	-28.9	-5.6	*
145.0	30.1	73.4	0.880	-3.6	-28.9	-2.5	*
175.0	34.7	73.4	0.914	-3.0	-28.9	2.8	*
190.0	37.7	73.4	0.926	-2.8	-28.9	6.0	
205.0	40.2	73.4	0.936	-2.6	-28.9	8.7	
220.0	43.0	73.4	0.944	-2.4	-28.9	11.6	
250.0	48.6	73.4	0.957	-2.1	-28.9	17.5	
265.0	50.9	73.4	0.961	-2.0	-28.9	20.0	
280.0	53.6	73.4	0.965	-1.9	-28.9	22.8	
295.0	56.5	73.4	0.969	-1.8	-28.9	25.8	
325.0	61.7	73.4	0.974	-1.6	-28.9	31.2	
340.0	64.6	73.4	0.976	-1.5	-28.9	34.1	*
355.0	66.8	73.4	0.978	-1.5	-28.9	36.4	
370.0	69.8	73.4	0.980	-1.4	-28.9	39.4	
400.0	75.7	73.4	0.983	-1.3	-28.9	45.5	
415.0	78.9	73.4	0.984	-1.3	-28.9	48.7	
430.0	80.3	73.4	0.985	-1.2	-28.9	50.2	*
445.0	84.6	73.4	0.986	-1.2	-28.9	54.5	
475.0	90.0	73.4	0.988	-1.1	-28.9	59.9	
490.0	93.4	73.4	0.989	-1.1	-28.9	63.3	
505.0	95.9	73.4	0.989	-1.0	-28.9	66.0	
520.0	99.0	73.4	0.990	-1.0	-28.9	69.0	
550.0	104.9	73.4	0.991	-1.0	-28.9	75.0	
565.0	108.0	73.4	0.991	-0.9	-28.9	78.2	
580.0	110.9	73.4	0.992	-0.9	-28.9	81.0	
595.0	113.2	73.4	0.992	-0.9	-28.9	83.4	
610.0	114.9	73.4	0.993	-0.8	-28.9	85.1	*
625.0	118.0	73.4	0.993	-0.8	-28.9	88.3	
640.0	120.3	73.4	0.993	-0.8	-28.9	90.6	
655.0	122.7	73.4	0.994	-0.8	-28.9	93.0	
670.0	125.1	73.4	0.994	-0.8	-28.9	95.4	
685.0	127.7	73.4	0.994	-0.7	-28.9	98.0	
700.0	130.1	73.4	0.994	-0.7	-28.9	100.5	
715.0	132.8	73.4	0.995	-0.7	-28.9	103.1	
730.0	135.7	73.4	0.995	-0.7	-28.9	106.1	
745.0	138.3	73.4	0.995	-0.7	-28.9	108.6	

MEASURED GEOPHONE DEPTH (DGM)	RAW TIME PICK (MS)	SRC-REC DIST. PLAN-VIEW (SRC_REC)	COS (I)	TIME CORRECTION COS	CORRECTION DATUM	VERTICAL TIME (TGD)
(M)	(MS)	(M)		(MS)	(MS)	(MS)
760.0	141.1	73.4	0.995	-0.7	-28.9	111.5
775.0	144.2	73.4	0.995	-0.7	-28.9	114.6
790.0	146.9	73.4	0.996	-0.6	-28.9	117.3
805.0	149.7	73.4	0.996	-0.6	-28.9	120.2
820.0	152.7	73.4	0.996	-0.6	-28.9	123.1
835.0	156.0	73.4	0.996	-0.6	-28.9	126.4
850.0	158.8	73.4	0.996	-0.6	-28.9	129.3
865.0	162.2	73.4	0.996	-0.6	-28.9	132.7
880.0	165.9	73.4	0.996	-0.6	-28.9	136.4 *
895.0	168.4	73.4	0.997	-0.6	-28.9	138.9
910.0	171.9	73.4	0.997	-0.6	-28.9	142.4
925.0	175.1	73.4	0.997	-0.6	-28.9	145.6
940.0	178.6	73.4	0.997	-0.6	-28.9	149.1
955.0	182.0	73.4	0.997	-0.5	-28.9	152.5
970.0	185.3	73.4	0.997	-0.5	-28.9	155.8
985.0	188.7	73.4	0.997	-0.5	-28.9	159.2
1000.0	191.4	73.4	0.997	-0.5	-28.9	161.9
1015.0	194.7	73.4	0.997	-0.5	-28.9	165.2
1030.0	197.3	73.4	0.997	-0.5	-28.9	167.9
1045.0	200.4	73.4	0.997	-0.5	-28.9	171.0
1060.0	203.1	73.4	0.998	-0.5	-28.9	173.6 *
1075.0	206.5	73.4	0.998	-0.5	-28.9	177.0
1090.0	209.3	73.4	0.998	-0.5	-28.9	179.9
1105.0	212.6	73.4	0.998	-0.5	-28.9	183.2
1120.0	215.4	73.4	0.998	-0.5	-28.9	186.0
1135.0	218.8	73.4	0.998	-0.5	-28.9	189.4
1150.0	221.5	73.4	0.998	-0.5	-28.9	192.1
1165.0	224.8	73.4	0.998	-0.5	-28.9	195.4
1180.0	227.8	73.4	0.998	-0.4	-28.9	198.4
1195.0	230.6	73.4	0.998	-0.4	-28.9	201.2
1210.0	233.7	73.4	0.998	-0.4	-28.9	204.3
1225.0	237.0	73.4	0.998	-0.4	-28.9	207.7
1240.0	239.8	73.4	0.998	-0.4	-28.9	210.5
1255.0	243.2	73.4	0.998	-0.4	-28.9	213.8
1270.0	245.9	73.4	0.998	-0.4	-28.9	216.6
1285.0	249.2	73.4	0.998	-0.4	-28.9	219.9
1300.0	252.0	73.4	0.998	-0.4	-28.9	222.6
1315.0	255.0	73.4	0.998	-0.4	-28.9	225.6
1330.0	257.9	73.4	0.998	-0.4	-28.9	228.6
1345.0	260.8	73.4	0.998	-0.4	-28.9	231.4
1360.0	263.6	73.4	0.999	-0.4	-28.9	234.3
1375.0	266.6	73.4	0.999	-0.4	-28.9	237.3
1390.0	269.2	73.4	0.999	-0.4	-28.9	239.9
1405.0	272.4	73.4	0.999	-0.4	-28.9	243.1
1420.0	275.3	73.4	0.999	-0.4	-28.9	246.0
1435.0	278.2	73.4	0.999	-0.4	-28.9	248.9
1450.0	280.9	73.4	0.999	-0.4	-28.9	251.6
1465.0	284.0	73.4	0.999	-0.4	-28.9	254.7
1480.0	286.8	73.4	0.999	-0.4	-28.9	257.5
1495.0	289.9	73.4	0.999	-0.4	-28.9	260.6
1510.0	292.8	73.4	0.999	-0.3	-28.9	263.5
1525.0	296.0	73.4	0.999	-0.3	-28.9	266.7
1540.0	298.7	73.4	0.999	-0.3	-28.9	269.4

MEASURED GEOPHONE DEPTH (DGM) (M)	RAW TIME PICK (MS)	SRC-REC DIST. PLAN-VIEW (SRC_REC) (M)	COS (I)	TIME CORRECTION COS (MS)	CORRECTION DATUM (MS)	VERTICAL TIME (TGD) (MS)
1555.0	302.0	73.4	0.999	-0.3	-28.9	272.7
1570.0	305.0	73.4	0.999	-0.3	-28.9	275.7
1585.0	307.8	73.4	0.999	-0.3	-28.9	278.5
1600.0	311.2	73.4	0.999	-0.3	-28.9	281.9
1615.0	314.1	73.4	0.999	-0.3	-28.9	284.8
1630.0	316.8	73.4	0.999	-0.3	-28.9	287.5
1645.0	319.9	73.4	0.999	-0.3	-28.9	290.7
1660.0	322.6	73.4	0.999	-0.3	-28.9	293.4
1675.0	325.8	73.4	0.999	-0.3	-28.9	296.5
1690.0	328.5	73.4	0.999	-0.3	-28.9	299.2
1705.0	331.6	73.4	0.999	-0.3	-28.9	302.3
1720.0	334.8	73.4	0.999	-0.3	-28.9	305.5 *
1735.0	337.2	73.4	0.999	-0.3	-28.9	307.9
1750.0	340.3	73.4	0.999	-0.3	-28.9	311.0
1765.0	343.1	73.4	0.999	-0.3	-28.9	313.9
1780.0	346.2	73.4	0.999	-0.3	-28.9	316.9
1795.0	350.3	73.4	0.999	-0.3	-28.9	321.0 *
1810.0	352.0	73.4	0.999	-0.3	-28.9	322.8
1825.0	355.2	73.4	0.999	-0.3	-28.9	326.0
1840.0	358.2	73.4	0.999	-0.3	-28.9	329.0
1855.0	361.4	73.4	0.999	-0.3	-28.9	332.2
1870.0	363.1	73.4	0.999	-0.3	-28.9	333.9 *
1885.0	367.3	73.4	0.999	-0.3	-28.9	338.1
1900.0	370.6	73.4	0.999	-0.3	-28.9	341.4
1915.0	373.6	73.4	0.999	-0.3	-28.9	344.4
1930.0	376.8	73.4	0.999	-0.3	-28.9	347.6
1945.0	379.7	73.4	0.999	-0.3	-28.9	350.5
1960.0	382.7	73.4	0.999	-0.3	-28.9	353.5
1975.0	385.6	73.4	0.999	-0.3	-28.9	356.4
1990.0	388.1	73.4	0.999	-0.3	-28.9	358.9
2005.0	391.3	73.4	0.999	-0.3	-28.9	362.1
2020.0	394.1	73.4	0.999	-0.3	-28.9	364.9
2035.0	397.5	73.4	0.999	-0.3	-28.9	368.3
2050.0	400.2	73.4	0.999	-0.3	-28.9	371.0
2065.0	403.4	73.4	0.999	-0.3	-28.9	374.2
2080.0	405.9	73.4	0.999	-0.3	-28.9	376.7
2095.0	409.2	73.4	0.999	-0.3	-28.9	380.0
2110.0	411.8	73.4	0.999	-0.3	-28.9	382.6
2125.0	415.0	73.4	0.999	-0.2	-28.9	385.8
2140.0	418.2	73.4	0.999	-0.2	-28.9	389.0 *
2155.0	421.2	73.4	0.999	-0.2	-28.9	392.0
2170.0	424.1	73.4	0.999	-0.2	-28.9	395.0
2185.0	427.2	73.4	0.999	-0.2	-28.9	398.0
2200.0	430.3	73.4	0.999	-0.2	-28.9	401.1
2215.0	433.1	73.4	0.999	-0.2	-28.9	403.9
2230.0	436.1	73.4	0.999	-0.2	-28.9	406.9
2245.0	439.0	73.4	0.999	-0.2	-28.9	409.8
2260.0	441.6	73.4	0.999	-0.2	-28.9	412.4
2275.0	443.9	73.4	0.999	-0.2	-28.9	414.7
2290.0	446.2	73.4	0.999	-0.2	-28.9	417.0
2305.0	448.5	73.4	0.999	-0.2	-28.9	419.3
2320.0	450.9	73.4	0.999	-0.2	-28.9	421.8
2335.0	453.4	73.4	1.000	-0.2	-28.9	424.3

MEASURED GEOPHONE DEPTH (DGM)	RAW TIME PICK (MS)	SRC-REC DIST. PLAN-VIEW (SRC_REC)	COS (I)	TIME CORRECTION COS	CORRECTION DATUM	VERTICAL TIME (TGD)
(M)	(MS)	(M)		(MS)	(MS)	(MS)
2350.0	454.9	73.4	1.000	-0.2	-28.9	425.7 *
2365.0	458.0	73.4	1.000	-0.2	-28.9	428.8
2380.0	460.3	73.4	1.000	-0.2	-28.9	431.1
2395.0	462.6	73.4	1.000	-0.2	-28.9	433.4
2410.0	464.0	73.4	1.000	-0.2	-28.9	434.9 *
2425.0	467.2	73.4	1.000	-0.2	-28.9	438.0
2440.0	469.4	73.4	1.000	-0.2	-28.9	440.2
2455.0	472.7	73.4	1.000	-0.2	-28.9	443.5 *
2470.0	473.7	73.4	1.000	-0.2	-28.9	444.6
2485.0	476.1	73.4	1.000	-0.2	-28.9	447.0 *
2500.0	478.0	73.4	1.000	-0.2	-28.9	448.9
2515.0	480.4	73.4	1.000	-0.2	-28.9	451.2
2530.0	482.4	73.4	1.000	-0.2	-28.9	453.2
2545.0	484.6	73.4	1.000	-0.2	-28.9	455.4
2560.0	486.8	73.4	1.000	-0.2	-28.9	457.7
2575.0	490.0	73.4	1.000	-0.2	-28.9	460.9 *
2590.0	490.9	73.4	1.000	-0.2	-28.9	461.8
2605.0	493.1	73.4	1.000	-0.2	-28.9	464.0
2620.0	495.6	73.4	1.000	-0.2	-28.9	466.4
2635.0	497.7	73.4	1.000	-0.2	-28.9	468.6
2650.0	500.0	73.4	1.000	-0.2	-28.9	470.9
2665.0	502.4	73.4	1.000	-0.2	-28.9	473.3
2680.0	504.6	73.4	1.000	-0.2	-28.9	475.5
2695.0	507.2	73.4	1.000	-0.2	-28.9	478.1
2710.0	509.2	73.4	1.000	-0.2	-28.9	480.1
2725.0	511.7	73.4	1.000	-0.2	-28.9	482.6
2740.0	513.9	73.4	1.000	-0.2	-28.9	484.7
2755.0	516.4	73.4	1.000	-0.2	-28.9	487.3
2770.0	518.5	73.4	1.000	-0.2	-28.9	489.3
2785.0	520.6	73.4	1.000	-0.2	-28.9	491.4
2800.0	522.9	73.4	1.000	-0.2	-28.9	493.8
2815.0	525.4	73.4	1.000	-0.2	-28.9	496.2
2830.0	527.3	73.4	1.000	-0.2	-28.9	498.2
2845.0	529.7	73.4	1.000	-0.2	-28.9	500.5
2860.0	532.0	73.4	1.000	-0.2	-28.9	502.9
2875.0	534.0	73.4	1.000	-0.2	-28.9	504.9
2890.0	535.3	73.4	1.000	-0.2	-28.9	506.2 *
2905.0	538.6	73.4	1.000	-0.2	-28.9	509.5
2920.0	541.1	73.4	1.000	-0.2	-28.9	512.0
2935.0	543.1	73.4	1.000	-0.2	-28.9	514.0
2950.0	545.4	73.4	1.000	-0.2	-28.9	516.3
2965.0	547.5	73.4	1.000	-0.2	-28.9	518.4
2980.0	550.1	73.4	1.000	-0.2	-28.9	520.9
2995.0	552.0	73.4	1.000	-0.2	-28.9	522.9
3010.0	554.7	73.4	1.000	-0.2	-28.9	525.6

NALCOR ENERGY INC.
WELL

FINNEGAN-1

2.4 VELOCITY TABLE

RECEIVER REFERENCE ELEVATION = 125.00 M ABOVE SEA LEVEL

DATUM ELEVATION 0.00 M ABOVE SEA LEVEL
DATUM CORRECT. VELOCITY 4000.00 M /SEC

MEASURED GEOPHONE DEPTH	DEPTH CORR. TO DATUM (DGM)	TIME CORR. TO DATUM (TGD)	AVERAGE VELOCITY	RMS VELOCITY	INTERVAL DEPTH (DELDGD)	INTERVAL TIME (DELDGT)	INTERVAL VELOCITY
(M)	(M)	(MS)	(M /SEC)	(M /SEC)	(M)	(MS)	(M /SEC)
					65.0	6.0	10827.1
190.0	65.0	6.0	10827.1	10827.1	-----		
					15.0	2.7	5566.1
205.0	80.0	8.7	9197.2	9513.5	-----		
					15.0	2.9	5114.2
220.0	95.0	11.6	8167.6	8618.5	-----		
					30.0	5.9	5071.8
250.0	125.0	17.5	7124.0	7609.9	-----		
					15.0	2.5	6102.6
265.0	140.0	20.0	6998.5	7441.2	-----		
					15.0	2.8	5398.0
280.0	155.0	22.8	6803.3	7223.0	-----		
					15.0	3.0	5008.1
295.0	170.0	25.8	6594.7	7001.7	-----		
					30.0	5.4	5527.9
325.0	200.0	31.2	6409.2	6768.5	-----		
					30.0	5.2	5729.7
355.0	230.0	36.4	6311.6	6629.3	-----		
					15.0	3.0	5032.7
370.0	245.0	39.4	6214.9	6522.2	-----		
					30.0	6.1	4930.7
400.0	275.0	45.5	6043.2	6332.6	-----		
					15.0	3.1	4763.4
415.0	290.0	48.7	5960.3	6243.0	-----		
					30.0	5.8	5163.0
445.0	320.0	54.5	5875.3	6136.9	-----		
					30.0	5.5	5481.8
475.0	350.0	59.9	5839.3	6080.0	-----		
					15.0	3.4	4400.2
490.0	365.0	63.3	5761.9	6001.6	-----		
					15.0	2.6	5712.1
505.0	380.0	66.0	5759.9	5990.3	-----		
					15.0	3.0	4922.2
520.0	395.0	69.0	5722.9	5947.2	-----		
					30.0	6.0	5029.3
550.0	425.0	75.0	5667.8	5879.4	-----		
					15.0	3.2	4707.9
565.0	440.0	78.2	5628.6	5836.3	-----		
					15.0	2.9	5219.3
580.0	455.0	81.0	5614.1	5815.5	-----		
					15.0	2.4	6337.2
595.0	470.0	83.4	5634.6	5831.0	-----		

MEASURED GEOPHONE DEPTH	DEPTH CORR. TO DATUM (DGD)	TIME CORR. TO DATUM (TGD)	AVERAGE VELOCITY	RMS VELOCITY	INTERVAL DEPTH (DELDGD)	INTERVAL TIME (DELDGT)	INTERVAL VELOCITY
(M)	(M)	(MS)	(M /SEC)	(M /SEC)	(M)	(MS)	(M /SEC)
					30.0	4.9	6179.8
625.0	500.0	88.3	5664.6	5850.7	15.0	2.3	6537.4
640.0	515.0	90.6	5686.7	5869.1	15.0	2.4	6141.6
655.0	530.0	93.0	5698.7	5876.4	15.0	2.4	6304.0
670.0	545.0	95.4	5713.8	5887.5	15.0	2.7	5639.4
685.0	560.0	98.0	5711.8	5880.9	15.0	2.4	6198.7
700.0	575.0	100.5	5723.5	5888.7	15.0	2.7	5641.1
715.0	590.0	103.1	5721.4	5882.5	15.0	2.9	5122.7
730.0	605.0	106.1	5704.8	5862.8	15.0	2.6	5790.7
745.0	620.0	108.6	5706.9	5861.1	15.0	2.9	5234.7
760.0	635.0	111.5	5694.8	5845.8	15.0	3.1	4872.9
775.0	650.0	114.6	5672.7	5821.8	15.0	2.7	5496.3
790.0	665.0	117.3	5668.6	5814.5	15.0	2.8	5277.4
805.0	680.0	120.2	5659.3	5802.3	15.0	2.9	5091.6
820.0	695.0	123.1	5645.7	5786.3	15.0	3.3	4542.6
835.0	710.0	126.4	5616.9	5757.3	15.0	2.9	5233.0
850.0	725.0	129.3	5608.4	5746.2	15.0	3.4	4407.6
865.0	740.0	132.7	5577.6	5715.8	30.0	6.3	4796.8
895.0	770.0	138.9	5542.4	5677.6	15.0	3.4	4368.4
910.0	785.0	142.4	5514.1	5649.6	15.0	3.2	4643.2
925.0	800.0	145.6	5494.8	5629.2	15.0	3.5	4298.9
940.0	815.0	149.1	5466.8	5601.7	15.0	3.4	4377.5
955.0	830.0	152.5	5442.3	5577.1	15.0	3.3	4504.1
970.0	845.0	155.8	5422.3	5556.4	15.0	3.3	4479.7
985.0	860.0	159.2	5402.5	5535.9	15.0	2.8	5430.5
1000.0	875.0	161.9	5402.9	5534.1	15.0	3.3	4592.7
1015.0	890.0	165.2	5386.9	5517.0			

MEASURED GEOPHONE DEPTH	DEPTH CORR. TO DATUM (DGM)	TIME CORR. TO DATUM (TGD)	AVERAGE VELOCITY	RMS VELOCITY	INTERVAL DEPTH (DELDGD)	INTERVAL TIME (DELDGT)	INTERVAL VELOCITY
(M)	(M)	(MS)	(M /SEC)	(M /SEC)	(M)	(MS)	(M /SEC)
1030.0	905.0	167.9	5390.2	5518.3	15.0	2.7	5593.7
1045.0	920.0	171.0	5380.6	5507.0	15.0	3.1	4856.7
1075.0	950.0	177.0	5365.8	5488.9	30.0	6.1	4949.8
1090.0	965.0	179.9	5364.4	5485.6	15.0	2.8	5278.1
1105.0	980.0	183.2	5349.3	5469.8	15.0	3.3	4529.1
1120.0	995.0	186.0	5350.4	5469.0	15.0	2.8	5418.2
1135.0	1010.0	189.4	5331.7	5450.3	15.0	3.5	4327.9
1150.0	1025.0	192.1	5335.4	5452.4	15.0	2.7	5600.5
1165.0	1040.0	195.4	5322.4	5438.6	15.0	3.3	4561.0
1180.0	1055.0	198.4	5317.7	5432.5	15.0	3.0	5015.3
1195.0	1070.0	201.2	5316.8	5430.0	15.0	2.9	5254.2
1210.0	1085.0	204.3	5310.5	5422.4	15.0	3.1	4895.3
1225.0	1100.0	207.7	5297.4	5408.7	15.0	3.3	4492.1
1240.0	1115.0	210.5	5298.0	5407.8	15.0	2.8	5345.9
1255.0	1130.0	213.8	5284.6	5394.0	15.0	3.4	4446.3
1270.0	1145.0	216.6	5287.1	5395.2	15.0	2.7	5488.5
1285.0	1160.0	219.9	5275.8	5383.3	15.0	3.3	4535.2
1300.0	1175.0	222.6	5278.3	5384.5	15.0	2.7	5476.9
1315.0	1190.0	225.6	5274.1	5379.0	15.0	3.0	4960.9
1330.0	1205.0	228.6	5271.8	5375.5	15.0	2.9	5101.5
1345.0	1220.0	231.4	5271.2	5373.7	15.0	2.9	5223.8
1360.0	1235.0	234.3	5272.1	5373.3	15.0	2.8	5341.2
1375.0	1250.0	237.3	5268.5	5368.6	15.0	3.0	4989.8
1390.0	1265.0	239.9	5272.4	5371.5	15.0	2.7	5621.9
1405.0	1280.0	243.1	5265.2	5363.4	15.0	3.2	4718.1
1420.0	1295.0	246.0	5264.7	5361.8	15.0	2.9	5222.0

MEASURED GEOPHONE DEPTH	DEPTH CORR. TO DATUM (DGM)	TIME CORR. TO DATUM (TGD)	AVERAGE VELOCITY (M /SEC)	RMS VELOCITY (M /SEC)	INTERVAL DEPTH (DELDGD)	INTERVAL TIME (DELDGT)	INTERVAL VELOCITY (M /SEC)
1435.0	1310.0	248.9	5262.4	5358.5	15.0	3.0	5076.1
1450.0	1325.0	251.6	5265.5	5360.6	15.0	2.7	5546.3
1465.0	1340.0	254.7	5260.3	5354.5	15.0	3.1	4838.3
1480.0	1355.0	257.5	5261.8	5355.0	15.0	2.8	5403.2
1495.0	1370.0	260.6	5257.0	5349.3	15.0	3.1	4851.0
1510.0	1385.0	263.5	5256.8	5348.2	15.0	2.9	5242.6
1525.0	1400.0	266.7	5249.4	5340.3	15.0	3.2	4648.3
1540.0	1415.0	269.4	5252.2	5342.1	15.0	2.7	5518.7
1555.0	1430.0	272.7	5243.3	5332.9	15.0	3.3	4522.1
1570.0	1445.0	275.7	5240.6	5329.3	15.0	3.0	4995.1
1585.0	1460.0	278.5	5242.0	5329.9	15.0	2.8	5384.8
1600.0	1475.0	281.9	5232.4	5320.1	15.0	3.4	4440.3
1615.0	1490.0	284.8	5231.4	5318.2	15.0	2.9	5135.8
1630.0	1505.0	287.5	5234.4	5320.4	15.0	2.7	5548.0
1645.0	1520.0	290.7	5229.1	5314.5	15.0	3.2	4746.0
1660.0	1535.0	293.4	5232.1	5316.9	15.0	2.7	5561.1
1675.0	1550.0	296.5	5227.2	5311.4	15.0	3.1	4771.2
1690.0	1565.0	299.2	5230.2	5313.6	15.0	2.7	5552.6
1705.0	1580.0	302.3	5225.9	5308.6	15.0	3.1	4809.9
1735.0	1610.0	307.9	5228.2	5309.5	30.0	5.6	5355.4
1750.0	1625.0	311.0	5224.6	5305.2	15.0	3.1	4862.7
1765.0	1640.0	313.9	5225.0	5305.0	15.0	2.8	5274.7
1780.0	1655.0	316.9	5222.2	5301.5	15.0	3.0	4926.8
1810.0	1685.0	322.8	5220.1	5298.1	30.0	5.9	5110.8
1825.0	1700.0	326.0	5214.6	5292.1	15.0	3.2	4655.3
1840.0	1715.0	329.0	5213.3	5290.2	15.0	3.0	5077.6

MEASURED GEOPHONE DEPTH	DEPTH CORR. TO DATUM (DGM)	TIME CORR. TO DATUM (DGD)	AVERAGE VELOCITY (TGD)	RMS VELOCITY (M /SEC)	INTERVAL DEPTH (DELDGD)	INTERVAL TIME (DELDGT)	INTERVAL VELOCITY (M /SEC)
1855.0	1730.0	332.2	5208.4	5284.8	15.0	3.2	4699.3
1885.0	1760.0	338.1	5206.0	5281.2	30.0	5.9	5070.6
1900.0	1775.0	341.4	5199.1	5274.1	15.0	3.3	4498.3
1915.0	1790.0	344.4	5197.2	5271.6	15.0	3.0	4979.7
1930.0	1805.0	347.6	5192.5	5266.5	15.0	3.2	4687.2
1945.0	1820.0	350.5	5193.3	5266.8	15.0	2.8	5298.5
1960.0	1835.0	353.5	5191.3	5264.2	15.0	3.0	4960.2
1975.0	1850.0	356.4	5191.4	5263.7	15.0	2.9	5205.3
1990.0	1865.0	358.9	5196.1	5268.1	15.0	2.6	5843.8
2005.0	1880.0	362.1	5191.8	5263.4	15.0	3.2	4706.2
2020.0	1895.0	364.9	5192.6	5263.7	15.0	2.8	5298.0
2035.0	1910.0	368.3	5186.4	5257.3	15.0	3.3	4503.1
2050.0	1925.0	371.0	5188.2	5258.6	15.0	2.8	5434.2
2065.0	1940.0	374.2	5183.8	5253.9	15.0	3.2	4677.5
2080.0	1955.0	376.7	5189.6	5259.7	15.0	2.5	6064.9
2095.0	1970.0	380.0	5184.7	5254.5	15.0	3.3	4611.9
2110.0	1985.0	382.6	5187.8	5257.2	15.0	2.7	5633.9
2125.0	2000.0	385.8	5183.6	5252.7	15.0	3.2	4679.4
2155.0	2030.0	392.0	5178.8	5247.0	30.0	6.1	4880.9
2170.0	2045.0	395.0	5177.8	5245.5	15.0	3.0	5034.9
2185.0	2060.0	398.0	5175.4	5242.7	15.0	3.1	4878.1
2200.0	2075.0	401.1	5173.6	5240.4	15.0	3.0	4930.0
2215.0	2090.0	403.9	5174.5	5240.9	15.0	2.8	5309.9
2230.0	2105.0	406.9	5173.0	5238.9	15.0	3.0	4963.2
2245.0	2120.0	409.8	5173.5	5239.0	15.0	2.9	5254.4
2260.0	2135.0	412.4	5176.9	5242.1	15.0	2.6	5696.7

MEASURED GEOPHONE DEPTH	DEPTH CORR. TO DATUM (DGM)	TIME CORR. TO DATUM (TGD)	AVERAGE VELOCITY (M /SEC)	RMS VELOCITY (M /SEC)	INTERVAL DEPTH (DELDGD)	INTERVAL TIME (DELDGT)	INTERVAL VELOCITY (M /SEC)
(M)	(M)	(MS)	(M /SEC)	(M /SEC)	(M)	(MS)	(M /SEC)
2275.0	2150.0	414.7	5183.9	5249.4	15.0	2.3	6420.2
2290.0	2165.0	417.0	5191.4	5257.4	15.0	2.3	6545.7
2305.0	2180.0	419.3	5199.1	5265.7	15.0	2.3	6615.4
2320.0	2195.0	421.8	5204.1	5270.7	15.0	2.5	6059.4
2335.0	2210.0	424.3	5209.0	5275.6	15.0	2.5	6047.7
2365.0	2240.0	428.8	5223.6	5291.1	30.0	4.6	6575.2
2380.0	2255.0	431.1	5230.2	5298.1	15.0	2.3	6453.4
2395.0	2270.0	433.4	5237.5	5305.9	15.0	2.3	6626.6
2425.0	2300.0	438.0	5250.9	5320.0	30.0	4.6	6518.1
2440.0	2315.0	440.2	5258.8	5328.6	15.0	2.2	6817.5
2470.0	2345.0	444.6	5274.7	5346.0	30.0	4.4	6878.8
2500.0	2375.0	448.9	5291.2	5364.2	30.0	4.3	7004.0
2515.0	2390.0	451.2	5296.6	5369.7	15.0	2.4	6317.2
2530.0	2405.0	453.2	5306.2	5380.8	15.0	2.0	7483.4
2545.0	2420.0	455.4	5313.8	5389.1	15.0	2.2	6899.0
2560.0	2435.0	457.7	5320.4	5395.9	15.0	2.3	6631.8
2590.0	2465.0	461.8	5337.9	5415.8	30.0	4.1	7291.4
2605.0	2480.0	464.0	5345.0	5423.3	15.0	2.2	6825.6
2620.0	2495.0	466.4	5349.0	5427.1	15.0	2.5	6108.2
2635.0	2510.0	468.6	5356.5	5435.3	15.0	2.1	6983.3
2650.0	2525.0	470.9	5361.9	5440.8	15.0	2.3	6453.1
2665.0	2540.0	473.3	5366.6	5445.4	15.0	2.4	6288.3
2680.0	2555.0	475.5	5373.5	5452.8	15.0	2.2	6871.9
2695.0	2570.0	478.1	5375.7	5454.7	15.0	2.6	5791.7
2710.0	2585.0	480.1	5384.3	5464.4	15.0	2.0	7401.7
2725.0	2600.0	482.6	5387.6	5467.4	15.0	2.5	6017.9

MEASURED GEOPHONE DEPTH	DEPTH CORR. TO DATUM (DGM)	TIME CORR. TO DATUM (TGD)	AVERAGE VELOCITY	RMS VELOCITY	INTERVAL DEPTH (DELDGD)	INTERVAL TIME (DELDGT)	INTERVAL VELOCITY
(M)	(M)	(MS)	(M /SEC)	(M /SEC)	(M)	(MS)	(M /SEC)
2740.0	2615.0	484.7	5394.7	5475.2	15.0	2.1	7017.1
2755.0	2630.0	487.3	5397.1	5477.2	15.0	2.6	5849.5
2770.0	2645.0	489.3	5405.3	5486.4	15.0	2.0	7358.1
2785.0	2660.0	491.4	5412.7	5494.5	15.0	2.1	7140.4
2800.0	2675.0	493.8	5417.7	5499.4	15.0	2.3	6460.6
2815.0	2690.0	496.2	5420.7	5502.2	15.0	2.5	6030.8
2830.0	2705.0	498.2	5429.7	5512.6	15.0	1.9	7725.6
2845.0	2720.0	500.5	5434.1	5516.9	15.0	2.4	6361.9
2860.0	2735.0	502.9	5438.3	5521.1	15.0	2.4	6334.0
2875.0	2750.0	504.9	5446.6	5530.5	15.0	2.0	7540.7
2905.0	2780.0	509.5	5456.8	5540.8	30.0	4.6	6588.4
2920.0	2795.0	512.0	5459.0	5542.7	15.0	2.5	5902.0
2935.0	2810.0	514.0	5467.3	5552.1	15.0	2.0	7617.6
2950.0	2825.0	516.3	5471.3	5556.0	15.0	2.4	6345.5
2965.0	2840.0	518.4	5478.1	5563.4	15.0	2.1	7154.8
2980.0	2855.0	520.9	5480.4	5565.3	15.0	2.5	5948.9
2995.0	2870.0	522.9	5488.8	5575.0	15.0	1.9	7742.9
3010.0	2885.0	525.6	5489.2	5574.9	15.0	2.7	5562.6

3. ACOUSTIC LOG CALIBRATION SPECIFICATIONS

NALCOR ENERGY INC.
WELL

FINNEGAN-1

3.1 ACOUSTIC LOG - FIRST BREAKS DRIFT TABLE

RECEIVER	VERTICAL DEPTH (M)	---- DRIFT ----- INITIAL (MS)	FINAL (MS)
	380.0	0.00	0.00
	395.0	-0.11	-0.01
	425.0	-0.47	-0.12
	440.0	-0.32	0.15
	455.0	-0.56	0.02
	470.0	-0.66	0.04
	500.0	-0.98	-0.04
	515.0	-1.15	-0.09
	530.0	-1.25	-0.07
	545.0	-1.47	-0.18
	560.0	-1.30	0.07
	575.0	-1.35	0.00
	590.0	-1.32	0.02
	605.0	-1.20	0.14
	620.0	-1.46	-0.13
	635.0	-1.50	-0.18
	650.0	-1.21	0.10
	665.0	-1.40	-0.10
	680.0	-1.36	-0.07
	695.0	-1.36	-0.07
	710.0	-1.19	0.08
	725.0	-1.35	-0.08
	740.0	-1.08	0.18
	770.0	-1.27	-0.13
	785.0	-0.98	0.05
	800.0	-0.94	0.00
	815.0	-0.75	0.09
	830.0	-0.66	0.09
	845.0	-0.68	-0.03
	860.0	-0.49	0.07
	875.0	-0.61	-0.16
	890.0	-0.19	0.17
	905.0	-0.36	-0.10
	920.0	-0.18	-0.02
	950.0	0.01	-0.02
	965.0	-0.05	-0.18
	980.0	0.35	0.12
	995.0	0.16	-0.16
	1010.0	0.61	0.19
	1025.0	0.33	-0.18
	1040.0	0.74	0.12
	1055.0	0.79	0.08
	1070.0	0.64	-0.17
	1085.0	0.76	-0.09
	1100.0	1.00	0.13
	1115.0	0.74	-0.16
	1130.0	1.10	0.16
	1145.0	0.81	-0.16
	1160.0	1.09	0.09
	1175.0	0.96	-0.07
	1190.0	1.12	0.05
	1205.0	1.10	0.01
	1220.0	1.19	0.06

RECEIVER VERTICAL DEPTH (M)	---- DRIFT ---- INITIAL (MS)	FINAL (MS)
1235.0	1.16	-0.00
1250.0	1.34	0.15
1265.0	1.08	-0.15
1280.0	1.26	0.01
1295.0	1.17	-0.11
1310.0	1.23	-0.08
1325.0	1.15	-0.20
1340.0	1.42	0.04
1355.0	1.21	-0.19
1370.0	1.39	-0.03
1385.0	1.25	-0.20
1400.0	1.53	0.06
1415.0	1.29	-0.21
1430.0	1.60	0.08
1445.0	1.54	-0.00
1460.0	1.34	-0.23
1475.0	1.74	0.15
1490.0	1.68	0.06
1505.0	1.47	-0.17
1520.0	1.74	0.07
1535.0	1.55	-0.14
1550.0	1.83	0.12
1565.0	1.66	-0.08
1580.0	1.89	0.13
1610.0	1.81	-0.00
1625.0	2.03	0.09
1640.0	1.98	-0.11
1655.0	2.23	-0.01
1685.0	2.43	-0.12
1700.0	2.73	0.03
1715.0	2.84	-0.02
1730.0	3.09	0.08
1760.0	3.10	-0.22
1775.0	3.50	0.04
1790.0	3.62	-0.00
1805.0	3.90	0.12
1820.0	3.89	-0.03
1835.0	4.09	0.11
1850.0	4.09	0.07
1865.0	3.81	-0.25
1880.0	4.08	-0.03
1895.0	3.96	-0.19
1910.0	4.31	0.11
1925.0	4.09	-0.15
1940.0	4.44	0.16
1955.0	4.03	-0.30
1970.0	4.37	-0.01
1985.0	4.19	-0.23
2000.0	4.49	0.03
2030.0	4.68	0.13
2045.0	4.63	0.04
2060.0	4.75	0.12
2075.0	4.87	0.19
2090.0	4.83	0.10
2105.0	4.88	0.11
2120.0	4.63	-0.18
2135.0	4.76	-0.07
2150.0	4.80	-0.05
2165.0	4.80	-0.07
2180.0	4.75	-0.13

RECEIVER	VERTICAL DEPTH (M)	---- DRIFT ---- INITIAL (MS)	----- FINAL (MS)
	2195.0	4.92	0.02
	2210.0	5.08	0.16
	2240.0	5.03	0.08
	2255.0	5.07	0.09
	2270.0	5.10	0.11
	2300.0	5.13	0.10
	2315.0	5.07	0.02
	2345.0	4.88	-0.20
	2375.0	4.93	-0.19
	2390.0	5.16	0.02
	2405.0	5.07	-0.08
	2420.0	5.13	-0.04
	2435.0	5.25	0.06
	2465.0	5.19	-0.04
	2480.0	5.22	-0.04
	2495.0	5.47	0.15
	2510.0	5.36	-0.03
	2525.0	5.39	-0.07
	2540.0	5.55	0.02
	2555.0	5.49	-0.10
	2570.0	5.80	0.14
	2585.0	5.58	-0.16
	2600.0	5.80	-0.00
	2615.0	5.70	-0.18
	2630.0	6.11	0.16
	2645.0	6.03	0.02
	2660.0	6.00	-0.08
	2675.0	6.22	0.04
	2690.0	6.56	0.24
	2705.0	6.34	-0.11
	2720.0	6.57	-0.01
	2735.0	6.84	0.12
	2750.0	6.73	-0.13
	2780.0	7.00	-0.13
	2795.0	7.39	0.13
	2810.0	7.25	-0.15
	2825.0	7.51	-0.03
	2840.0	7.49	-0.18
	2855.0	7.87	0.07
	2870.0	7.71	-0.23
	2885.0	8.29	0.22

NALCOR ENERGY INC.
WELL

FINNEGAN-1

3.2 ACOUSTIC LOG CALIBRATION POINTS

ACOUSTIC FREQUENCY = 12000.00 HZ
SEISMIC FREQUENCY = 60.00 HZ

VERTICAL DEPTH (M)	PICKED DRIFT (MS)	INTEGRATED ACOUSTIC LOG (MS)
380.0	0.00	0.04
554.7	-1.38	32.50
752.6	-1.26	70.53
1070.6	0.80	134.79
1338.5	1.37	187.12
1612.5	1.80	240.69
1820.4	3.92	280.74
2118.4	4.80	338.88
2478.3	5.24	392.61
2668.3	6.11	420.66
2924.2	8.42	453.29

4. INTERPOLATED TABLES

WELL FINNEGAN-1
 DATUM ELEVATION 0.00 M ABOVE SEA LEVEL
 DATUM CORRECT. VELOCITY 4000.00 M /SEC

4.1 DATA INTERPOLATED EVERY 10.00 M BELOW DATUM

DATUM DEPTH (DGD)	TIME		VELOCITY		
	1 WAY (TGD)	2 WAY	AVERAGE	INTERVAL	RMS
10.0	0.9	1.8	10827.1	10827.1	10827.1
20.0	1.8	3.7	10827.1	10827.1	10827.1
30.0	2.8	5.5	10827.1	10827.1	10827.1
40.0	3.7	7.4	10827.1	10827.1	10827.1
50.0	4.6	9.2	10827.1	10827.1	10827.1
60.0	5.5	11.1	10827.1	10827.1	10827.1
70.0	6.9	13.8	10142.4	7352.4	10236.1
80.0	8.7	17.4	9197.2	5566.1	9462.3
90.0	10.7	21.3	8447.8	5114.2	8826.3
100.0	12.6	25.2	7925.7	5092.9	8355.6
110.0	14.6	29.2	7540.0	5071.8	7991.1
120.0	16.6	33.1	7246.1	5071.8	7701.7
130.0	18.4	36.7	7078.4	5539.7	7516.8
140.0	20.0	40.0	6998.5	6102.6	7411.2
150.0	21.9	43.7	6862.8	5398.0	7262.2
160.0	23.8	47.6	6727.9	5195.8	7117.3
170.0	25.8	51.6	6594.7	5008.1	6976.8
180.0	27.6	55.2	6524.8	5527.9	6891.1
190.0	29.4	58.8	6463.4	5527.9	6815.1
200.0	31.2	62.4	6409.2	5527.9	6747.2
210.0	33.0	65.9	6373.2	5729.7	6697.2
220.0	34.7	69.4	6340.8	5729.7	6651.9
230.0	36.4	72.9	6311.6	5729.7	6610.6
240.0	38.4	76.9	6245.4	5032.7	6538.4
250.0	40.4	80.9	6182.7	4981.2	6469.9
260.0	42.5	84.9	6122.9	4930.7	6404.8
270.0	44.5	89.0	6068.5	4930.7	6345.1
280.0	46.6	93.1	6014.3	4845.6	6286.2
290.0	48.7	97.3	5960.3	4763.4	6228.2
300.0	50.6	101.2	5929.8	5163.0	6190.8
310.0	52.5	105.1	5901.5	5163.0	6155.9
320.0	54.5	108.9	5875.3	5163.0	6123.4
330.0	56.3	112.6	5862.5	5481.8	6103.6
340.0	58.1	116.2	5850.6	5481.8	6085.1
350.0	59.9	119.9	5839.3	5481.8	6067.6
360.0	62.2	124.4	5786.8	4400.2	6014.8
370.0	64.2	128.4	5762.7	5011.2	5986.2
380.0	65.9	131.9	5763.5	5795.6	5981.3

DATUM DEPTH (DGD)	TIME		VELOCITY		
	1 WAY (TGD)	2 WAY	AVERAGE	INTERVAL	RMS
390.0	68.0	135.9	5737.8	4904.4	5951.8
400.0	70.0	140.0	5714.3	4929.2	5924.6
410.0	72.0	144.1	5692.2	4929.2	5898.9
420.0	74.1	148.1	5671.3	4929.2	5874.5
430.0	76.1	152.1	5654.0	5012.7	5853.5
440.0	78.0	156.0	5642.2	5176.8	5837.7
450.0	80.0	160.0	5624.0	4925.1	5816.3
460.0	81.8	163.6	5622.6	5558.9	5810.8
470.0	83.3	166.7	5640.1	6585.1	5825.8
480.0	84.9	169.8	5654.2	6406.4	5837.0
490.0	86.5	173.0	5663.6	6154.3	5843.1
500.0	88.3	176.5	5664.9	5727.6	5840.8
510.0	89.9	179.7	5675.5	6265.8	5848.7
520.0	91.4	182.8	5688.4	6431.4	5859.1
530.0	93.0	186.1	5696.7	6164.6	5864.5
540.0	94.7	189.4	5703.2	6070.2	5868.2
550.0	96.3	192.6	5712.4	6257.3	5874.8
560.0	97.9	195.9	5718.1	6051.4	5877.9
570.0	99.6	199.2	5724.3	6093.3	5881.5
580.0	101.3	202.6	5725.8	5814.0	5880.3
590.0	103.1	206.1	5725.0	5679.8	5877.0
600.0	104.9	209.8	5720.5	5464.3	5870.0
610.0	106.8	213.6	5712.4	5264.6	5859.8
620.0	108.7	217.5	5702.1	5138.8	5847.7
630.0	110.7	221.4	5690.3	5041.4	5834.2
640.0	112.6	225.1	5685.8	5419.1	5827.6
650.0	114.4	228.9	5679.7	5312.6	5819.5
660.0	116.4	232.8	5669.2	5060.2	5807.5
670.0	118.3	236.6	5662.7	5265.4	5799.2
680.0	120.2	240.4	5657.9	5357.1	5792.6
690.0	122.1	244.3	5649.5	5131.1	5782.6
700.0	124.2	248.3	5637.2	4900.5	5769.2
710.0	126.3	252.6	5622.5	4752.9	5753.7
720.0	128.3	256.6	5610.9	4894.7	5741.1
730.0	130.2	260.4	5607.7	5385.8	5736.1
740.0	132.5	264.9	5586.8	4393.7	5715.7
750.0	134.6	269.3	5570.3	4568.1	5698.9
760.0	136.8	273.7	5554.1	4561.1	5682.5
770.0	139.0	278.0	5538.7	4575.4	5666.8
780.0	141.2	282.3	5525.8	4682.8	5653.2
790.0	143.4	286.7	5510.2	4514.7	5637.3
800.0	145.5	291.1	5496.4	4592.5	5623.1
810.0	147.7	295.5	5482.9	4581.2	5609.1
820.0	150.1	300.1	5464.2	4280.1	5590.9
830.0	152.4	304.8	5446.9	4324.9	5573.8
840.0	154.7	309.4	5430.1	4324.0	5557.2

DATUM DEPTH (DGD)	TIME		VELOCITY		
	1 WAY (TGD)	2 WAY	AVERAGE	INTERVAL	RMS
850.0	157.0	314.0	5414.8	4376.0	5541.8
860.0	159.1	318.2	5406.1	4758.2	5532.2
870.0	161.1	322.1	5401.9	5061.2	5526.6
880.0	163.0	326.1	5397.3	5031.0	5520.9
890.0	165.0	330.0	5393.8	5097.1	5516.0
900.0	167.0	333.9	5390.5	5112.3	5511.5
910.0	168.9	337.9	5386.8	5072.5	5506.5
920.0	171.0	341.9	5381.2	4918.5	5499.9
930.0	173.0	345.9	5377.3	5038.8	5494.8
940.0	175.0	350.1	5370.7	4820.2	5487.3
950.0	177.0	354.1	5366.4	4997.9	5482.0
960.0	179.0	358.1	5362.2	4991.9	5476.8
970.0	181.0	362.0	5359.4	5100.8	5472.9
980.0	183.0	366.1	5354.2	4892.6	5466.7
990.0	185.1	370.1	5349.4	4914.3	5461.0
1000.0	187.2	374.3	5343.3	4800.7	5454.0
1010.0	189.2	378.4	5338.1	4871.6	5448.1
1020.0	191.2	382.5	5333.4	4896.4	5442.5
1030.0	193.3	386.5	5329.8	4988.3	5437.9
1040.0	195.2	390.5	5326.8	5030.7	5434.0
1050.0	197.2	394.5	5323.3	4987.3	5429.6
1060.0	199.3	398.6	5318.0	4811.1	5423.5
1070.0	201.4	402.7	5313.6	4882.3	5418.3
1080.0	203.3	406.7	5311.6	5108.1	5415.4
1090.0	205.4	410.8	5306.5	4807.3	5409.6
1100.0	207.5	415.0	5301.7	4826.4	5404.0
1110.0	209.5	419.1	5297.3	4857.7	5398.9
1120.0	211.6	423.2	5293.3	4880.8	5394.2
1130.0	213.6	427.3	5289.5	4899.9	5389.7
1140.0	215.7	431.3	5286.2	4931.4	5385.5
1150.0	217.7	435.4	5282.7	4918.2	5381.4
1160.0	219.7	439.5	5279.0	4884.6	5376.9
1170.0	221.7	443.4	5277.9	5148.8	5375.0
1180.0	223.6	447.2	5277.4	5222.2	5373.7
1190.0	225.5	451.1	5276.3	5146.8	5371.8
1200.0	227.6	455.2	5272.7	4879.6	5367.6
1210.0	229.4	458.9	5273.6	5385.7	5367.7
1220.0	231.3	462.7	5273.6	5275.4	5366.9
1230.0	233.2	466.5	5273.4	5245.3	5366.0
1240.0	235.2	470.3	5272.8	5199.8	5364.6
1250.0	237.1	474.1	5272.8	5278.0	5363.9
1260.0	239.0	478.1	5271.0	5050.7	5361.4
1270.0	241.0	481.9	5270.3	5178.9	5360.0
1280.0	243.1	486.1	5266.3	4804.5	5355.5
1290.0	245.0	490.0	5265.5	5162.3	5354.0
1300.0	247.0	494.1	5262.2	4869.3	5350.1

DATUM DEPTH (DGD)	TIME		VELOCITY		
	1 WAY (TGD)	2 WAY	AVERAGE	INTERVAL	RMS
1310.0	249.0	497.9	5261.6	5189.7	5348.9
1320.0	250.9	501.7	5261.9	5296.8	5348.5
1330.0	252.7	505.5	5262.4	5336.0	5348.4
1340.0	254.7	509.3	5262.0	5204.7	5347.3
1350.0	256.7	513.3	5260.0	5004.7	5344.8
1360.0	258.7	517.3	5257.8	4975.9	5342.0
1370.0	260.6	521.2	5257.1	5170.1	5340.7
1380.0	262.6	525.2	5255.2	4998.9	5338.2
1390.0	264.6	529.3	5252.4	4903.8	5335.0
1400.0	266.6	533.2	5251.4	5111.9	5333.4
1410.0	268.6	537.3	5248.9	4916.0	5330.4
1420.0	270.6	541.2	5247.4	5051.3	5328.4
1430.0	272.6	545.3	5244.9	4903.3	5325.3
1440.0	274.7	549.4	5242.0	4859.6	5322.0
1450.0	276.7	553.5	5239.4	4896.1	5319.0
1460.0	278.7	557.5	5237.8	5009.4	5316.8
1470.0	280.8	561.5	5235.8	4962.1	5314.4
1480.0	282.8	565.5	5234.1	4993.0	5312.1
1490.0	284.7	569.5	5232.7	5035.0	5310.3
1500.0	286.7	573.4	5231.9	5111.2	5308.9
1510.0	288.7	577.4	5230.8	5071.4	5307.3
1520.0	290.6	581.2	5230.4	5181.9	5306.5
1530.0	292.5	585.1	5230.0	5171.6	5305.6
1540.0	294.5	588.9	5230.0	5224.2	5305.1
1550.0	296.4	592.8	5229.4	5140.4	5304.0
1560.0	298.3	596.7	5229.0	5170.2	5303.2
1570.0	300.3	600.5	5228.6	5158.5	5302.3
1580.0	302.2	604.4	5228.1	5150.6	5301.3
1590.0	304.1	608.2	5228.4	5278.2	5301.2
1600.0	306.0	612.0	5228.6	5260.2	5300.9
1610.0	307.9	615.9	5228.2	5169.1	5300.1
1620.0	309.9	619.8	5227.2	5064.9	5298.6
1630.0	312.0	623.9	5225.1	4909.9	5296.2
1640.0	314.0	628.0	5223.3	4940.8	5294.0
1650.0	315.9	631.9	5222.8	5140.0	5293.0
1660.0	317.9	635.9	5221.3	4988.6	5291.2
1670.0	319.9	639.8	5220.4	5079.4	5289.9
1680.0	321.9	643.8	5219.1	5015.6	5288.2
1690.0	323.9	647.9	5217.1	4902.2	5285.9
1700.0	326.0	652.0	5215.0	4871.7	5283.4
1710.0	328.0	656.0	5213.7	5000.8	5281.7
1720.0	330.0	660.1	5211.6	4885.1	5279.3
1730.0	332.1	664.1	5209.7	4896.4	5277.1
1740.0	334.1	668.2	5207.8	4903.3	5274.9
1750.0	336.2	672.4	5205.4	4813.9	5272.1
1760.0	338.3	676.6	5202.7	4766.9	5269.2

DATUM DEPTH (DGD)	----- TIME -----		----- VELOCITY -----		
	1 WAY (TGD)	2 WAY	AVERAGE	INTERVAL	RMS
1770.0	340.3	680.7	5200.7	4870.0	5266.8
1780.0	342.4	684.8	5199.0	4916.3	5264.8
1790.0	344.4	688.8	5197.1	4886.4	5262.7
1800.0	346.5	692.9	5195.2	4874.3	5260.4
1810.0	348.5	697.0	5193.5	4897.8	5258.4
1820.0	350.5	701.0	5192.9	5092.5	5257.5
1830.0	352.4	704.8	5193.1	5238.5	5257.4
1840.0	354.3	708.7	5192.7	5110.4	5256.6
1850.0	356.3	712.6	5192.6	5172.5	5256.1
1860.0	358.2	716.4	5192.5	5182.8	5255.7
1870.0	360.2	720.3	5192.0	5090.1	5254.8
1880.0	362.1	724.3	5191.4	5086.3	5253.9
1890.0	364.1	728.3	5190.3	4985.4	5252.5
1900.0	366.1	732.3	5189.2	4995.4	5251.1
1910.0	368.2	736.3	5187.9	4960.9	5249.6
1920.0	370.2	740.4	5186.5	4922.5	5247.8
1930.0	372.1	744.3	5186.1	5113.9	5247.2
1940.0	374.1	748.2	5186.1	5183.3	5246.8
1950.0	376.0	752.1	5185.7	5111.4	5246.1
1960.0	378.0	756.0	5185.3	5112.3	5245.4
1970.0	380.0	759.9	5184.7	5059.1	5244.5
1980.0	381.9	763.8	5184.8	5218.2	5244.4
1990.0	383.8	767.7	5184.4	5093.9	5243.6
2000.0	385.8	771.6	5184.1	5131.1	5243.0
2010.0	387.8	775.5	5183.5	5076.1	5242.2
2020.0	389.8	779.5	5182.7	5019.6	5241.1
2030.0	391.8	783.6	5181.1	4872.9	5239.2
2040.0	393.9	787.7	5179.5	4873.9	5237.4
2050.0	395.9	791.7	5178.4	4967.4	5236.1
2060.0	397.9	795.8	5177.5	4995.1	5234.9
2070.0	399.9	799.7	5176.8	5047.0	5234.0
2080.0	401.8	803.6	5176.6	5130.3	5233.5
2090.0	403.8	807.5	5176.4	5126.2	5232.9
2100.0	405.8	811.5	5175.4	4976.5	5231.7
2110.0	407.8	815.6	5174.0	4891.8	5230.1
2120.0	409.9	819.8	5171.8	4755.2	5227.7
2130.0	411.6	823.3	5174.3	5776.5	5230.2
2140.0	413.2	826.4	5178.9	6378.6	5235.0
2150.0	414.8	829.5	5183.8	6488.7	5240.2
2160.0	416.3	832.6	5188.6	6488.7	5245.4
2170.0	417.8	835.7	5193.3	6462.6	5250.4
2180.0	419.4	838.8	5197.9	6430.9	5255.3
2190.0	421.0	841.9	5202.5	6443.5	5260.1
2200.0	422.5	845.0	5207.2	6495.7	5265.2
2210.0	424.1	848.1	5211.5	6362.5	5269.7
2220.0	425.6	851.3	5215.8	6372.6	5274.2

DATUM DEPTH (DGD)	----- TIME -----		----- VELOCITY -----		
	1 WAY (TGD)	2 WAY	AVERAGE	INTERVAL	RMS
2230.0	427.2	854.4	5220.3	6456.7	5278.9
2240.0	428.7	857.4	5225.0	6547.3	5284.0
2250.0	430.3	860.5	5229.5	6478.7	5288.7
2260.0	431.8	863.5	5234.2	6572.5	5293.8
2270.0	433.3	866.5	5239.3	6694.5	5299.3
2280.0	434.8	869.6	5243.8	6525.4	5304.1
2290.0	436.3	872.7	5248.1	6457.8	5308.6
2300.0	437.9	875.7	5252.7	6562.5	5313.5
2310.0	439.4	878.8	5257.1	6522.0	5318.2
2320.0	440.9	881.8	5261.9	6663.7	5323.4
2330.0	442.4	884.9	5266.3	6526.5	5328.0
2340.0	444.0	887.9	5270.6	6505.2	5332.5
2350.0	445.5	890.9	5275.5	6749.3	5337.9
2360.0	446.9	893.8	5281.1	7039.6	5344.1
2370.0	448.3	896.6	5286.5	6972.2	5350.1
2380.0	449.7	899.4	5292.2	7084.7	5356.5
2390.0	451.2	902.3	5297.3	6893.3	5362.1
2400.0	452.6	905.2	5302.9	7108.6	5368.4
2410.0	454.0	908.0	5308.4	7070.0	5374.5
2420.0	455.4	910.8	5313.8	7039.0	5380.5
2430.0	456.8	913.7	5319.1	7004.7	5386.4
2440.0	458.3	916.5	5324.3	6980.8	5392.1
2450.0	459.7	919.3	5329.9	7152.4	5398.3
2460.0	461.1	922.2	5335.3	7089.0	5404.3
2470.0	462.5	925.0	5340.4	6980.2	5409.9
2480.0	464.0	928.0	5345.0	6814.7	5414.9
2490.0	465.5	931.0	5349.2	6640.5	5419.3
2500.0	467.0	934.1	5353.0	6497.7	5423.2
2510.0	468.6	937.2	5356.6	6450.1	5426.9
2520.0	470.1	940.3	5360.1	6390.8	5430.4
2530.0	471.7	943.4	5363.5	6394.8	5433.9
2540.0	473.2	946.5	5367.3	6522.3	5437.8
2550.0	474.8	949.5	5371.0	6538.2	5441.7
2560.0	476.3	952.7	5374.5	6421.3	5445.2
2570.0	477.9	955.8	5377.8	6378.1	5448.5
2580.0	479.5	958.9	5381.1	6406.0	5451.9
2590.0	481.0	962.0	5384.7	6499.0	5455.6
2600.0	482.6	965.1	5388.0	6408.5	5458.9
2610.0	484.1	968.2	5391.5	6476.7	5462.5
2620.0	485.6	971.2	5395.2	6570.2	5466.3
2630.0	487.1	974.2	5399.4	6805.7	5470.8
2640.0	488.5	977.1	5403.8	6873.1	5475.5
2650.0	490.0	980.0	5408.1	6858.1	5480.2
2660.0	491.5	982.9	5412.3	6802.6	5484.6
2670.0	492.9	985.9	5416.5	6825.8	5489.1
2680.0	494.4	988.8	5420.5	6755.7	5493.3

DATUM DEPTH (DGD)	TIME		VELOCITY		
	1 WAY (TGD)	2 WAY	AVERAGE	INTERVAL	RMS
2690.0	496.0	991.9	5423.8	6481.3	5496.6
2700.0	497.5	995.0	5426.9	6421.8	5499.8
2710.0	499.0	998.0	5430.7	6673.5	5503.7
2720.0	500.5	1001.0	5434.4	6672.4	5507.5
2730.0	502.0	1004.0	5438.1	6692.0	5511.5
2740.0	503.5	1007.0	5441.9	6712.3	5515.4
2750.0	505.0	1010.0	5445.7	6713.1	5519.3
2760.0	506.5	1013.0	5449.3	6690.9	5523.1
2770.0	508.0	1016.1	5452.4	6474.6	5526.3
2780.0	509.5	1019.1	5455.9	6615.0	5529.8
2790.0	511.0	1022.1	5459.3	6625.2	5533.4
2800.0	512.6	1025.2	5462.5	6516.3	5536.6
2810.0	514.1	1028.1	5466.1	6717.0	5540.4
2820.0	515.6	1031.1	5469.8	6722.2	5544.1
2830.0	517.1	1034.1	5473.2	6657.7	5547.7
2840.0	518.6	1037.1	5476.7	6678.1	5551.3
2850.0	520.1	1040.1	5480.0	6604.3	5554.6
2860.0	521.6	1043.1	5483.4	6671.8	5558.2
2870.0	523.1	1046.1	5486.9	6695.0	5561.7
2880.0	524.6	1049.2	5490.1	6608.6	5565.1
2890.0	526.1	1052.1	5493.6	6728.5	5568.7

NALCOR ENERGY INC.

WELL

FINNEGAN-1

DATUM ELEVATION

0.00 M ABOVE SEA LEVEL

DATUM CORRECT. VELOCITY

4000.00 M /SEC

4.2 DATA INTERPOLATED EVERY 2.00 MS BELOW DATUM

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
2.0	1.0	10.8	10827.1	10827.1	10827.1
4.0	2.0	21.7	10827.1	10827.1	10827.1
6.0	3.0	32.5	10827.1	10827.1	10827.1
8.0	4.0	43.3	10827.1	10827.1	10827.1
10.0	5.0	54.1	10827.1	10827.1	10827.1
12.0	6.0	65.0	10827.1	10827.1	10827.1
14.0	7.0	70.5	10078.1	5584.2	10243.8
16.0	8.0	76.1	9514.1	5566.1	9782.2
18.0	9.0	81.5	9060.3	5429.8	9398.6
20.0	10.0	86.7	8665.7	5114.2	9061.8
22.0	11.0	91.8	8342.8	5114.2	8776.6
24.0	12.0	96.9	8072.5	5098.6	8530.9
26.0	13.0	101.9	7841.7	5071.8	8316.0
28.0	14.0	107.0	7643.8	5071.8	8127.4
30.0	15.0	112.1	7472.3	5071.8	7960.2
32.0	16.0	117.2	7322.3	5071.8	7811.1
34.0	17.0	122.2	7189.9	5071.8	7677.0
36.0	18.0	127.8	7098.2	5539.4	7574.1
38.0	19.0	133.9	7045.8	6102.6	7503.9
40.0	20.0	140.0	6998.7	6102.6	7440.1
42.0	21.0	145.4	6922.6	5401.1	7355.8
44.0	22.0	150.8	6853.3	5398.0	7278.3
46.0	23.0	156.1	6786.4	5313.5	7204.0
48.0	24.0	161.1	6712.3	5008.1	7126.0
50.0	25.0	166.1	6644.1	5008.1	7053.5
52.0	26.0	171.2	6585.6	5123.4	6989.1
54.0	27.0	176.8	6546.4	5527.9	6940.5
56.0	28.0	182.3	6510.1	5527.9	6895.1
58.0	29.0	187.8	6476.2	5527.9	6852.5
60.0	30.0	193.3	6444.6	5527.9	6812.5
62.0	31.0	198.9	6415.0	5527.9	6774.8
64.0	32.0	204.6	6392.3	5688.3	6743.5
66.0	33.0	210.3	6372.2	5729.7	6715.0
68.0	34.0	216.0	6353.3	5729.7	6688.1
70.0	35.0	221.7	6335.5	5729.7	6662.7
72.0	36.0	227.5	6318.7	5729.7	6638.5
74.0	37.0	232.8	6292.2	5340.2	6606.8
76.0	38.0	237.8	6259.1	5032.7	6570.2

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
78.0	39.0	242.9	6227.6	5032.7	6535.3
80.0	40.0	247.9	6196.3	4973.7	6500.8
82.0	41.0	252.8	6165.4	4930.7	6467.1
84.0	42.0	257.7	6136.0	4930.7	6434.8
86.0	43.0	262.6	6108.0	4930.7	6403.8
88.0	44.0	267.6	6081.2	4930.7	6374.1
90.0	45.0	272.5	6055.7	4930.7	6345.6
92.0	46.0	277.4	6029.4	4848.1	6316.8
94.0	47.0	282.1	6002.5	4763.4	6287.8
96.0	48.0	286.9	5976.7	4763.4	6259.8
98.0	49.0	291.8	5954.7	4901.3	6235.0
100.0	50.0	296.9	5938.9	5163.0	6215.4
102.0	51.0	302.1	5923.7	5163.0	6196.5
104.0	52.0	307.3	5909.0	5163.0	6178.2
106.0	53.0	312.4	5895.0	5163.0	6160.6
108.0	54.0	317.6	5881.4	5163.0	6143.6
110.0	55.0	322.9	5871.5	5333.3	6129.8
112.0	56.0	328.4	5864.5	5481.8	6118.9
114.0	57.0	333.9	5857.8	5481.8	6108.3
116.0	58.0	339.4	5851.3	5481.8	6098.0
118.0	59.0	344.9	5845.0	5481.8	6088.1
120.0	60.0	350.3	5837.9	5414.9	6077.5
122.0	61.0	354.7	5814.3	4400.2	6053.7
124.0	62.0	359.1	5791.5	4400.2	6030.7
126.0	63.0	363.5	5769.4	4400.2	6008.2
128.0	64.0	368.8	5762.5	5326.8	5998.2
130.0	65.0	374.6	5763.4	5819.3	5995.5
132.0	66.0	380.3	5762.6	5711.4	5991.3
134.0	67.0	385.2	5749.5	4884.9	5976.3
136.0	68.0	390.1	5737.4	4929.2	5962.2
138.0	69.0	395.1	5725.7	4929.2	5948.5
140.0	70.0	400.0	5714.3	4929.2	5935.2
142.0	71.0	404.9	5703.3	4929.2	5922.2
144.0	72.0	409.9	5692.5	4929.2	5909.5
146.0	73.0	414.8	5682.1	4929.2	5897.2
148.0	74.0	419.7	5671.9	4929.2	5885.2
150.0	75.0	424.6	5662.0	4929.3	5873.5
152.0	76.0	429.7	5654.4	5089.6	5863.8
154.0	77.0	434.7	5645.0	4925.3	5852.6
156.0	78.0	440.1	5642.2	5431.5	5847.4
158.0	79.0	445.1	5633.8	4971.6	5837.1
160.0	80.0	449.9	5624.1	4863.5	5826.0
162.0	81.0	455.1	5618.4	5163.2	5818.3
164.0	82.0	461.2	5624.8	6139.6	5822.3
166.0	83.0	467.8	5636.4	6592.1	5832.2
168.0	84.0	474.3	5646.9	6518.5	5840.8

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
170.0	85.0	480.7	5654.7	6309.7	5846.5
172.0	86.0	486.8	5660.1	6111.8	5849.7
174.0	87.0	492.9	5665.8	6158.0	5853.3
176.0	88.0	498.5	5665.0	5599.3	5850.5
178.0	89.0	504.5	5668.5	5977.5	5851.9
180.0	90.0	510.9	5677.2	6447.0	5858.9
182.0	91.0	517.4	5686.0	6480.9	5866.1
184.0	92.0	523.6	5691.4	6184.9	5869.6
186.0	93.0	529.8	5696.7	6181.3	5873.1
188.0	94.0	535.9	5700.7	6076.1	5875.3
190.0	95.0	541.9	5703.9	5999.8	5876.6
192.0	96.0	548.2	5709.9	6285.5	5881.0
194.0	97.0	554.5	5716.0	6301.5	5885.5
196.0	98.0	560.4	5718.6	5969.1	5886.4
198.0	99.0	566.6	5722.7	6125.2	5888.8
200.0	100.0	572.6	5725.5	6003.5	5890.0
202.0	101.0	578.3	5726.1	5782.7	5888.9
204.0	102.0	584.0	5725.6	5672.9	5886.8
206.0	103.0	589.7	5725.2	5681.1	5884.9
208.0	104.0	595.3	5723.6	5559.8	5881.8
210.0	105.0	600.6	5719.6	5310.4	5876.7
212.0	106.0	605.7	5714.1	5135.6	5870.1
214.0	107.0	611.1	5711.3	5417.5	5866.0
216.0	108.0	616.4	5707.4	5286.3	5860.9
218.0	109.0	621.4	5700.5	4957.6	5853.3
220.0	110.0	626.4	5695.0	5087.3	5846.8
222.0	111.0	631.5	5689.1	5043.9	5840.0
224.0	112.0	637.0	5687.1	5471.4	5836.8
226.0	113.0	642.3	5684.3	5364.3	5832.8
228.0	114.0	647.7	5681.8	5399.8	5829.2
230.0	115.0	652.9	5677.0	5130.3	5823.4
232.0	116.0	657.8	5670.8	4959.1	5816.5
234.0	117.0	663.1	5667.6	5290.7	5812.3
236.0	118.0	668.3	5663.7	5210.2	5807.4
238.0	119.0	673.6	5660.5	5288.1	5803.2
240.0	120.0	679.0	5658.2	5386.2	5799.9
242.0	121.0	684.4	5655.8	5363.6	5796.4
244.0	122.0	689.4	5650.4	4998.7	5790.3
246.0	123.0	694.3	5645.1	4990.8	5784.3
248.0	124.0	699.2	5638.4	4817.0	5777.1
250.0	125.0	704.0	5631.7	4797.8	5769.9
252.0	126.0	708.7	5624.6	4746.3	5762.5
254.0	127.0	713.5	5618.1	4790.9	5755.5
256.0	128.0	718.4	5612.4	4897.1	5749.3
258.0	129.0	723.3	5607.3	4949.9	5743.5
260.0	130.0	728.9	5607.1	5583.0	5742.3

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
262.0	131.0	733.7	5601.1	4815.3	5735.8
264.0	132.0	738.0	5591.1	4289.1	5726.2
266.0	133.0	742.4	5581.8	4353.2	5717.1
268.0	134.0	747.0	5574.6	4615.8	5709.7
270.0	135.0	751.8	5568.5	4756.0	5703.2
272.0	136.0	756.4	5561.5	4609.5	5696.0
274.0	137.0	760.8	5553.0	4391.2	5687.5
276.0	138.0	765.3	5545.7	4555.2	5680.1
278.0	139.0	769.9	5538.9	4590.8	5673.0
280.0	140.0	774.5	5532.4	4633.4	5666.3
282.0	141.0	779.3	5526.9	4759.5	5660.4
284.0	142.0	783.8	5519.8	4517.8	5653.1
286.0	143.0	788.3	5512.7	4503.7	5645.9
288.0	144.0	792.8	5505.7	4509.2	5638.8
290.0	145.0	797.3	5498.9	4516.8	5631.8
292.0	146.0	802.1	5493.8	4756.8	5626.3
294.0	147.0	806.8	5488.6	4720.7	5620.6
296.0	148.0	811.1	5480.5	4290.5	5612.7
298.0	149.0	815.2	5471.3	4112.5	5604.0
300.0	150.0	819.7	5464.6	4463.0	5597.1
302.0	151.0	824.1	5457.6	4411.7	5590.1
304.0	152.0	828.4	5450.0	4297.9	5582.6
306.0	153.0	832.7	5442.4	4296.1	5575.1
308.0	154.0	837.0	5435.1	4315.9	5567.9
310.0	155.0	841.3	5427.5	4263.2	5560.4
312.0	156.0	845.8	5421.5	4490.4	5554.2
314.0	157.0	850.1	5414.6	4339.9	5547.3
316.0	158.0	854.6	5409.2	4548.9	5541.6
318.0	159.0	859.6	5406.2	4943.2	5538.0
320.0	160.0	864.7	5404.4	5111.5	5535.5
322.0	161.0	869.7	5402.0	5025.1	5532.4
324.0	162.0	874.7	5399.1	4929.6	5528.9
326.0	163.0	879.8	5397.4	5121.6	5526.5
328.0	164.0	884.8	5395.1	5010.2	5523.5
330.0	165.0	890.0	5393.8	5181.0	5521.5
332.0	166.0	895.1	5392.2	5129.6	5519.2
334.0	167.0	900.2	5390.4	5092.7	5516.8
336.0	168.0	905.2	5388.4	5049.6	5514.1
338.0	169.0	910.3	5386.5	5081.1	5511.6
340.0	170.0	915.2	5383.4	4859.4	5508.0
342.0	171.0	920.2	5381.1	4988.7	5505.1
344.0	172.0	925.2	5379.2	5053.6	5502.6
346.0	173.0	930.2	5377.1	5020.8	5500.0
348.0	174.0	935.2	5374.5	4921.7	5496.8
350.0	175.0	939.9	5370.7	4701.0	5492.6
352.0	176.0	944.9	5368.7	5024.9	5490.0

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
354.0	177.0	949.9	5366.5	4970.7	5487.2
356.0	178.0	954.8	5364.1	4953.5	5484.4
358.0	179.0	959.9	5362.4	5043.0	5482.0
360.0	180.0	964.8	5360.3	4987.5	5479.4
362.0	181.0	970.0	5359.4	5199.2	5477.9
364.0	182.0	975.0	5356.9	4916.3	5475.0
366.0	183.0	979.8	5354.4	4882.7	5471.9
368.0	184.0	984.7	5351.5	4825.0	5468.6
370.0	185.0	989.7	5349.5	4980.3	5466.1
372.0	186.0	994.6	5347.3	4952.6	5463.4
374.0	187.0	999.3	5343.8	4688.5	5459.6
376.0	188.0	1004.1	5340.8	4783.2	5456.2
378.0	189.0	1009.0	5338.5	4900.9	5453.4
380.0	190.0	1013.9	5336.3	4922.2	5450.8
382.0	191.0	1018.8	5333.8	4859.6	5447.8
384.0	192.0	1023.7	5332.0	4990.5	5445.6
386.0	193.0	1028.7	5330.2	4987.4	5443.3
388.0	194.0	1033.8	5328.7	5031.5	5441.2
390.0	195.0	1038.8	5327.0	4995.2	5439.0
392.0	196.0	1043.9	5325.8	5087.9	5437.3
394.0	197.0	1048.8	5323.9	4946.8	5434.9
396.0	198.0	1053.7	5321.7	4895.0	5432.3
398.0	199.0	1058.5	5318.9	4772.5	5429.2
400.0	200.0	1063.3	5316.6	4862.8	5426.5
402.0	201.0	1068.2	5314.3	4838.6	5423.8
404.0	202.0	1073.2	5312.8	5015.9	5421.8
406.0	203.0	1078.3	5311.9	5142.2	5420.5
408.0	204.0	1083.3	5310.3	4965.6	5418.3
410.0	205.0	1088.1	5307.7	4777.6	5415.4
412.0	206.0	1092.8	5305.0	4751.1	5412.4
414.0	207.0	1097.7	5302.7	4834.2	5409.7
416.0	208.0	1102.5	5300.7	4888.3	5407.3
418.0	209.0	1107.4	5298.5	4834.2	5404.7
420.0	210.0	1112.2	5296.3	4841.1	5402.2
422.0	211.0	1117.1	5294.1	4845.7	5399.7
424.0	212.0	1122.0	5292.5	4941.9	5397.6
426.0	213.0	1126.9	5290.5	4870.4	5395.3
428.0	214.0	1131.9	5289.0	4976.8	5393.4
430.0	215.0	1136.8	5287.5	4962.0	5391.5
432.0	216.0	1141.7	5285.5	4849.1	5389.1
434.0	217.0	1146.6	5283.8	4915.0	5387.0
436.0	218.0	1151.5	5281.9	4883.2	5384.8
438.0	219.0	1156.4	5280.3	4927.5	5382.8
440.0	220.0	1161.3	5278.6	4897.3	5380.7
442.0	221.0	1166.5	5278.1	5183.3	5379.8
444.0	222.0	1171.8	5278.2	5284.7	5379.4

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
446.0	223.0	1176.8	5277.1	5030.0	5377.9
448.0	224.0	1182.1	5277.4	5349.2	5377.7
450.0	225.0	1187.4	5277.3	5265.7	5377.2
452.0	226.0	1192.2	5275.3	4819.8	5374.9
454.0	227.0	1197.1	5273.6	4894.3	5372.9
456.0	228.0	1202.2	5272.8	5079.7	5371.6
458.0	229.0	1207.6	5273.5	5446.8	5372.0
460.0	230.0	1213.1	5274.2	5422.6	5372.2
462.0	231.0	1218.2	5273.7	5156.2	5371.3
464.0	232.0	1223.5	5273.7	5276.4	5370.9
466.0	233.0	1228.7	5273.6	5250.6	5370.4
468.0	234.0	1233.9	5273.0	5146.9	5369.4
470.0	235.0	1239.1	5272.7	5200.0	5368.7
472.0	236.0	1244.5	5273.2	5378.2	5368.8
474.0	237.0	1249.7	5272.9	5205.3	5368.1
476.0	238.0	1254.8	5272.3	5127.1	5367.1
478.0	239.0	1259.8	5271.1	4985.4	5365.5
480.0	240.0	1264.8	5270.1	5044.4	5364.2
482.0	241.0	1270.1	5270.2	5288.1	5363.9
484.0	242.0	1274.9	5268.2	4789.6	5361.7
486.0	243.0	1279.7	5266.4	4820.9	5359.6
488.0	244.0	1284.7	5265.1	4959.6	5358.0
490.0	245.0	1290.0	5265.4	5342.4	5357.9
492.0	246.0	1294.8	5263.3	4733.5	5355.5
494.0	247.0	1299.8	5262.2	4990.5	5354.1
496.0	248.0	1305.0	5262.2	5259.5	5353.7
498.0	249.0	1310.1	5261.6	5120.4	5352.8
500.0	250.0	1315.4	5261.4	5222.4	5352.3
502.0	251.0	1320.8	5262.0	5390.4	5352.4
504.0	252.0	1326.1	5262.2	5313.8	5352.3
506.0	253.0	1331.4	5262.5	5353.0	5352.3
508.0	254.0	1336.6	5262.3	5209.2	5351.7
510.0	255.0	1341.8	5261.8	5132.2	5350.9
512.0	256.0	1346.6	5260.3	4890.0	5349.2
514.0	257.0	1351.7	5259.5	5041.9	5348.0
516.0	258.0	1356.7	5258.4	4965.9	5346.6
518.0	259.0	1361.8	5257.8	5107.2	5345.7
520.0	260.0	1366.9	5257.4	5163.5	5345.0
522.0	261.0	1372.0	5256.7	5076.7	5344.0
524.0	262.0	1377.1	5256.1	5084.5	5343.0
526.0	263.0	1382.0	5254.6	4861.9	5341.3
528.0	264.0	1386.8	5253.1	4856.7	5339.5
530.0	265.0	1391.8	5252.2	5013.5	5338.3
532.0	266.0	1397.0	5251.8	5169.2	5337.7
534.0	267.0	1402.0	5251.1	5059.8	5336.7
536.0	268.0	1406.9	5249.6	4852.7	5335.0

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
538.0	269.0	1411.9	5248.6	4977.2	5333.7
540.0	270.0	1416.9	5247.9	5060.9	5332.7
542.0	271.0	1422.0	5247.1	5019.4	5331.6
544.0	272.0	1426.8	5245.7	4865.8	5329.9
546.0	273.0	1431.7	5244.3	4874.9	5328.3
548.0	274.0	1436.6	5242.9	4859.7	5326.7
550.0	275.0	1441.4	5241.6	4880.9	5325.2
552.0	276.0	1446.3	5240.2	4854.6	5323.5
554.0	277.0	1451.2	5239.1	4937.0	5322.2
556.0	278.0	1456.2	5238.2	4992.6	5321.0
558.0	279.0	1461.3	5237.7	5079.7	5320.2
560.0	280.0	1466.3	5236.7	4969.8	5319.0
562.0	281.0	1471.2	5235.6	4924.4	5317.6
564.0	282.0	1476.3	5235.0	5078.5	5316.8
566.0	283.0	1481.2	5233.7	4873.0	5315.3
568.0	284.0	1486.2	5233.0	5026.6	5314.3
570.0	285.0	1491.3	5232.6	5113.3	5313.6
572.0	286.0	1496.4	5232.2	5111.8	5312.9
574.0	287.0	1501.5	5231.6	5075.0	5312.1
576.0	288.0	1506.6	5231.1	5074.7	5311.3
578.0	289.0	1511.6	5230.6	5081.8	5310.5
580.0	290.0	1516.8	5230.5	5202.4	5310.2
582.0	291.0	1522.0	5230.4	5210.9	5309.8
584.0	292.0	1527.3	5230.5	5258.2	5309.6
586.0	293.0	1532.4	5229.9	5059.6	5308.8
588.0	294.0	1537.6	5230.0	5262.3	5308.7
590.0	295.0	1542.8	5229.7	5128.5	5308.1
592.0	296.0	1547.9	5229.5	5171.3	5307.6
594.0	297.0	1553.1	5229.4	5195.9	5307.2
596.0	298.0	1558.3	5229.2	5168.3	5306.8
598.0	299.0	1563.4	5228.9	5150.3	5306.3
600.0	300.0	1568.6	5228.6	5148.4	5305.7
602.0	301.0	1573.7	5228.3	5141.4	5305.2
604.0	302.0	1578.9	5228.0	5136.1	5304.6
606.0	303.0	1584.1	5227.9	5199.8	5304.3
608.0	304.0	1589.4	5228.3	5339.6	5304.4
610.0	305.0	1594.7	5228.5	5281.0	5304.3
612.0	306.0	1599.9	5228.6	5259.8	5304.2
614.0	307.0	1605.2	5228.6	5217.7	5303.9
616.0	308.0	1610.3	5228.2	5129.4	5303.4
618.0	309.0	1615.5	5228.1	5200.3	5303.0
620.0	310.0	1620.4	5227.1	4895.3	5301.8
622.0	311.0	1625.3	5226.1	4918.2	5300.6
624.0	312.0	1630.2	5225.1	4908.2	5299.4
626.0	313.0	1635.2	5224.1	4940.9	5298.3
628.0	314.0	1640.1	5223.3	4948.5	5297.2

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
630.0	315.0	1645.2	5223.0	5130.1	5296.7
632.0	316.0	1650.4	5222.8	5157.1	5296.2
634.0	317.0	1655.3	5221.9	4949.1	5295.2
636.0	318.0	1660.4	5221.3	5015.0	5294.3
638.0	319.0	1665.3	5220.4	4954.0	5293.3
640.0	320.0	1670.5	5220.4	5222.3	5293.1
642.0	321.0	1675.6	5220.0	5092.4	5292.4
644.0	322.0	1680.5	5219.1	4919.7	5291.3
646.0	323.0	1685.4	5218.1	4888.9	5290.1
648.0	324.0	1690.3	5217.1	4901.1	5289.0
650.0	325.0	1695.2	5216.1	4900.3	5287.8
652.0	326.0	1700.1	5215.0	4838.6	5286.5
654.0	327.0	1705.1	5214.3	4989.1	5285.6
656.0	328.0	1710.1	5213.7	5015.4	5284.8
658.0	329.0	1715.1	5213.0	5001.7	5284.0
660.0	330.0	1719.8	5211.6	4759.2	5282.5
662.0	331.0	1724.7	5210.7	4890.4	5281.3
664.0	332.0	1729.6	5209.7	4902.6	5280.2
666.0	333.0	1734.5	5208.7	4871.7	5279.0
668.0	334.0	1739.4	5207.8	4912.6	5278.0
670.0	335.0	1744.3	5207.0	4931.2	5277.0
672.0	336.0	1749.1	5205.7	4752.8	5275.5
674.0	337.0	1753.8	5204.3	4730.8	5274.0
676.0	338.0	1758.6	5203.1	4806.6	5272.6
678.0	339.0	1763.5	5202.0	4843.6	5271.4
680.0	340.0	1768.3	5201.0	4842.8	5270.2
682.0	341.0	1773.2	5199.9	4857.4	5269.1
684.0	342.0	1778.1	5199.2	4943.8	5268.1
686.0	343.0	1783.1	5198.4	4931.2	5267.2
688.0	344.0	1788.0	5197.6	4908.7	5266.2
690.0	345.0	1792.9	5196.7	4895.6	5265.1
692.0	346.0	1797.7	5195.7	4867.2	5264.0
694.0	347.0	1802.6	5194.8	4852.7	5262.9
696.0	348.0	1807.5	5193.9	4880.9	5261.8
698.0	349.0	1812.5	5193.3	4997.8	5261.1
700.0	350.0	1817.5	5192.8	5032.0	5260.5
702.0	351.0	1822.8	5193.1	5280.5	5260.5
704.0	352.0	1828.0	5193.2	5219.7	5260.4
706.0	353.0	1833.2	5193.1	5175.7	5260.2
708.0	354.0	1838.3	5192.8	5084.2	5259.7
710.0	355.0	1843.3	5192.5	5094.7	5259.2
712.0	356.0	1848.5	5192.5	5168.5	5259.0
714.0	357.0	1853.7	5192.5	5214.8	5258.8
716.0	358.0	1858.9	5192.6	5213.5	5258.7
718.0	359.0	1864.1	5192.6	5189.1	5258.5
720.0	360.0	1869.1	5192.1	5009.0	5257.8

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
722.0	361.0	1874.2	5191.7	5060.3	5257.3
724.0	362.0	1879.3	5191.5	5108.8	5256.9
726.0	363.0	1884.3	5190.8	4946.4	5256.1
728.0	364.0	1889.3	5190.3	5014.2	5255.4
730.0	365.0	1894.3	5190.0	5071.0	5254.9
732.0	366.0	1899.3	5189.3	4951.8	5254.1
734.0	367.0	1904.2	5188.5	4868.2	5253.1
736.0	368.0	1909.2	5188.0	5036.0	5252.5
738.0	369.0	1914.0	5187.1	4842.0	5251.5
740.0	370.0	1919.0	5186.5	4967.9	5250.7
742.0	371.0	1924.1	5186.2	5080.8	5250.3
744.0	372.0	1929.2	5186.1	5150.9	5250.0
746.0	373.0	1934.3	5185.8	5050.4	5249.5
748.0	374.0	1939.6	5186.1	5319.3	5249.7
750.0	375.0	1944.8	5186.0	5147.9	5249.4
752.0	376.0	1949.8	5185.7	5067.5	5248.9
754.0	377.0	1954.9	5185.5	5116.6	5248.6
756.0	378.0	1960.0	5185.3	5104.9	5248.2
758.0	379.0	1965.1	5184.9	5042.2	5247.7
760.0	380.0	1970.2	5184.7	5086.8	5247.3
762.0	381.0	1975.5	5185.1	5329.5	5247.5
764.0	382.0	1980.6	5184.8	5092.0	5247.1
766.0	383.0	1985.8	5184.8	5179.1	5246.9
768.0	384.0	1990.8	5184.4	5018.8	5246.3
770.0	385.0	1995.9	5184.1	5065.9	5245.9
772.0	386.0	2001.1	5184.2	5223.6	5245.8
774.0	387.0	2006.2	5183.9	5087.6	5245.4
776.0	388.0	2011.2	5183.6	5057.9	5244.9
778.0	389.0	2016.2	5183.1	5010.4	5244.3
780.0	390.0	2021.2	5182.6	4970.2	5243.6
782.0	391.0	2026.1	5181.8	4859.6	5242.7
784.0	392.0	2030.9	5180.9	4849.5	5241.7
786.0	393.0	2035.8	5180.1	4844.4	5240.8
788.0	394.0	2040.7	5179.4	4919.3	5240.0
790.0	395.0	2045.6	5178.8	4934.0	5239.2
792.0	396.0	2050.6	5178.4	5018.1	5238.7
794.0	397.0	2055.6	5177.9	5005.4	5238.1
796.0	398.0	2060.6	5177.4	4975.1	5237.5
798.0	399.0	2065.7	5177.2	5082.0	5237.1
800.0	400.0	2070.7	5176.8	5009.5	5236.5
802.0	401.0	2075.8	5176.5	5086.7	5236.1
804.0	402.0	2081.0	5176.7	5228.0	5236.1
806.0	403.0	2086.2	5176.6	5154.5	5235.9
808.0	404.0	2091.2	5176.2	5005.4	5235.4
810.0	405.0	2096.2	5175.7	4981.2	5234.8
812.0	406.0	2101.2	5175.3	4997.6	5234.2

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
814.0	407.0	2106.1	5174.7	4960.2	5233.5
816.0	408.0	2110.9	5173.8	4785.4	5232.5
818.0	409.0	2115.7	5172.9	4795.2	5231.5
820.0	410.0	2120.4	5171.7	4711.2	5230.2
822.0	411.0	2125.8	5172.3	5402.8	5230.7
824.0	412.0	2132.2	5175.3	6390.6	5233.8
826.0	413.0	2138.6	5178.2	6406.5	5237.0
828.0	414.0	2145.1	5181.4	6488.5	5240.3
830.0	415.0	2151.6	5184.6	6489.0	5243.7
832.0	416.0	2158.1	5187.7	6488.5	5247.1
834.0	417.0	2164.6	5190.8	6488.8	5250.4
836.0	418.0	2171.0	5193.8	6440.9	5253.6
838.0	419.0	2177.4	5196.7	6421.4	5256.6
840.0	420.0	2183.9	5199.7	6439.7	5259.8
842.0	421.0	2190.3	5202.7	6452.9	5262.9
844.0	422.0	2196.8	5205.8	6503.9	5266.2
846.0	423.0	2203.3	5208.7	6434.1	5269.3
848.0	424.0	2209.6	5211.4	6359.6	5272.1
850.0	425.0	2215.9	5214.0	6308.1	5274.8
852.0	426.0	2222.3	5216.7	6403.6	5277.7
854.0	427.0	2228.8	5219.7	6492.2	5280.9
856.0	428.0	2235.4	5222.8	6538.8	5284.2
858.0	429.0	2241.9	5225.9	6552.0	5287.5
860.0	430.0	2248.4	5228.8	6470.9	5290.6
862.0	431.0	2254.9	5231.8	6507.8	5293.7
864.0	432.0	2261.5	5235.0	6613.5	5297.1
866.0	433.0	2268.2	5238.4	6700.0	5300.8
868.0	434.0	2274.8	5241.5	6603.8	5304.2
870.0	435.0	2281.3	5244.4	6481.9	5307.2
872.0	436.0	2287.7	5247.1	6451.2	5310.1
874.0	437.0	2294.3	5250.1	6540.8	5313.2
876.0	438.0	2300.8	5253.0	6540.5	5316.4
878.0	439.0	2307.4	5255.9	6524.9	5319.4
880.0	440.0	2314.0	5259.0	6613.3	5322.7
882.0	441.0	2320.6	5262.2	6666.5	5326.2
884.0	442.0	2327.1	5265.0	6513.9	5329.1
886.0	443.0	2333.7	5267.9	6542.0	5332.2
888.0	444.0	2340.2	5270.6	6471.9	5335.0
890.0	445.0	2346.8	5273.6	6612.8	5338.2
892.0	446.0	2353.8	5277.7	7077.9	5342.8
894.0	447.0	2360.9	5281.6	7033.2	5347.2
896.0	448.0	2367.8	5285.3	6943.8	5351.3
898.0	449.0	2374.9	5289.3	7086.9	5355.7
900.0	450.0	2381.8	5293.0	6919.9	5359.7
902.0	451.0	2388.8	5296.7	6958.3	5363.8
904.0	452.0	2395.9	5300.6	7060.5	5368.1

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
906.0	453.0	2403.0	5304.6	7125.0	5372.7
908.0	454.0	2410.0	5308.5	7068.4	5377.0
910.0	455.0	2417.1	5312.3	7041.5	5381.2
912.0	456.0	2424.1	5316.0	6988.8	5385.2
914.0	457.0	2431.1	5319.7	7015.1	5389.4
916.0	458.0	2438.0	5323.2	6941.2	5393.2
918.0	459.0	2445.2	5327.2	7154.1	5397.7
920.0	460.0	2452.3	5331.2	7162.6	5402.2
922.0	461.0	2459.4	5334.9	7060.3	5406.3
924.0	462.0	2466.4	5338.6	7028.8	5410.3
926.0	463.0	2473.3	5341.9	6853.0	5413.9
928.0	464.0	2480.1	5345.1	6829.3	5417.3
930.0	465.0	2486.8	5348.0	6683.3	5420.4
932.0	466.0	2493.3	5350.5	6522.0	5423.0
934.0	467.0	2499.8	5352.9	6493.4	5425.5
936.0	468.0	2506.2	5355.2	6414.1	5427.8
938.0	469.0	2512.7	5357.6	6468.0	5430.2
940.0	470.0	2519.1	5359.8	6401.6	5432.5
942.0	471.0	2525.4	5361.7	6275.1	5434.4
944.0	472.0	2531.9	5364.3	6549.1	5437.0
946.0	473.0	2538.4	5366.7	6514.2	5439.5
948.0	474.0	2545.0	5369.2	6554.0	5442.1
950.0	475.0	2551.5	5371.6	6504.9	5444.5
952.0	476.0	2557.9	5373.8	6408.4	5446.7
954.0	477.0	2564.3	5375.9	6376.2	5448.9
956.0	478.0	2570.7	5378.0	6377.7	5451.0
958.0	479.0	2577.0	5380.1	6383.1	5453.1
960.0	480.0	2583.6	5382.5	6539.8	5455.6
962.0	481.0	2590.0	5384.7	6450.2	5457.8
964.0	482.0	2596.4	5386.7	6369.9	5459.9
966.0	483.0	2602.9	5389.0	6461.7	5462.1
968.0	484.0	2609.4	5391.3	6510.7	5464.5
970.0	485.0	2615.9	5393.6	6523.9	5466.9
972.0	486.0	2622.5	5396.1	6611.6	5469.5
974.0	487.0	2629.4	5399.1	6861.3	5472.7
976.0	488.0	2636.3	5402.2	6894.0	5476.0
978.0	489.0	2643.1	5405.1	6834.5	5479.1
980.0	490.0	2650.0	5408.1	6873.8	5482.4
982.0	491.0	2656.8	5410.9	6786.4	5485.3
984.0	492.0	2663.6	5413.9	6856.4	5488.5
986.0	493.0	2670.4	5416.7	6793.2	5491.4
988.0	494.0	2677.2	5419.4	6776.6	5494.3
990.0	495.0	2683.7	5421.7	6560.8	5496.7
992.0	496.0	2690.2	5423.8	6473.6	5498.8
994.0	497.0	2696.6	5425.8	6394.8	5500.8
996.0	498.0	2703.2	5428.2	6631.3	5503.3

----- TIME -----		DATUM	----- VELOCITY -----		
2 WAY	1 WAY (TGD)	DEPTH (DGD)	AVERAGE	INTERVAL	RMS
998.0	499.0	2709.9	5430.6	6635.0	5505.8
1000.0	500.0	2716.5	5433.0	6637.9	5508.3
1002.0	501.0	2723.3	5435.6	6732.4	5511.0
1004.0	502.0	2729.9	5438.1	6676.0	5513.6
1006.0	503.0	2736.6	5440.6	6701.7	5516.2
1008.0	504.0	2743.4	5443.2	6749.8	5518.9
1010.0	505.0	2750.1	5445.7	6686.5	5521.5
1012.0	506.0	2756.8	5448.2	6716.6	5524.1
1014.0	507.0	2763.4	5450.6	6654.8	5526.5
1016.0	508.0	2769.8	5452.4	6366.0	5528.3
1018.0	509.0	2776.4	5454.7	6615.5	5530.7
1020.0	510.0	2783.0	5456.9	6574.2	5532.9
1022.0	511.0	2789.7	5459.2	6672.4	5535.3
1024.0	512.0	2796.1	5461.2	6465.6	5537.3
1026.0	513.0	2802.7	5463.4	6614.0	5539.6
1028.0	514.0	2809.5	5466.0	6757.3	5542.2
1030.0	515.0	2816.2	5468.4	6712.2	5544.8
1032.0	516.0	2822.9	5470.8	6691.7	5547.2
1034.0	517.0	2829.6	5473.1	6667.7	5549.6
1036.0	518.0	2836.3	5475.4	6693.6	5552.0
1038.0	519.0	2842.9	5477.7	6665.0	5554.4
1040.0	520.0	2849.5	5479.8	6563.7	5556.5
1042.0	521.0	2856.1	5482.0	6626.7	5558.8
1044.0	522.0	2862.8	5484.2	6638.7	5561.0
1046.0	523.0	2869.6	5486.7	6788.8	5563.6
1048.0	524.0	2876.1	5488.7	6543.0	5565.7
1050.0	525.0	2882.8	5491.1	6728.5	5568.1
1052.0	526.0	2889.6	5493.4	6728.5	5570.6
1054.0	527.0	2896.3	5495.8	6745.4	5573.0

NALCOR ENERGY INC.
WELL

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4.3 TIME/DEPTH INFORMATION

GEPHONE REFERENCE ELEVATION 125.00 M ABOVE SEA LEVEL
 DATUM ELEVATION 0.00 M ABOVE SEA LEVEL
 DATUM CORRECT. VELOCITY 4000.00 M /SEC

ALL TIMES ARE TWO-WAY TIMES CORRECTED TO DATUM
 INTERPOLATED EVERY 1.00 MS

TIME	0	1	2	3	4	5	6	7	8	9
0		5	11	16	22	27	32	38	43	49
10	54	60	65	68	71	73	76	79	82	84
20	87	89	92	94	97	99	102	104	107	110
30	112	115	117	120	122	125	128	131	134	137
40	140	143	145	148	151	153	156	159	161	164
50	166	169	171	174	177	180	182	185	188	191
60	193	196	199	202	205	207	210	213	216	219
70	222	225	227	230	233	235	238	240	243	245
80	248	250	253	255	258	260	263	265	268	270
90	273	275	277	280	282	284	287	289	292	294
100	297	300	302	305	307	310	312	315	318	320
110	323	326	328	331	334	337	339	342	345	348
120	350	352	355	357	359	361	363	366	369	372
130	375	378	380	383	385	388	390	393	395	398
140	400	402	405	407	410	412	415	417	420	422
150	425	427	430	432	435	437	440	443	445	447
160	450	452	455	458	461	465	468	471	474	478
170	481	484	487	490	493	496	499	501	504	508
180	511	514	517	521	524	527	530	533	536	539
190	542	545	548	551	554	557	560	564	567	570
200	573	575	578	581	584	587	590	592	595	598
210	601	603	606	608	611	614	616	619	621	624
220	626	629	631	634	637	640	642	645	648	650
230	653	655	658	660	663	666	668	671	674	676
240	679	682	684	687	689	692	694	697	699	702
250	704	706	709	711	713	716	718	721	723	726
260	729	732	734	736	738	740	742	745	747	749
270	752	754	756	759	761	763	765	768	770	772
280	775	777	779	782	784	786	788	791	793	795
290	797	800	802	804	807	809	811	813	815	817
300	820	822	824	826	828	831	833	835	837	839
310	841	843	846	848	850	852	855	857	860	862
320	865	867	870	872	875	877	880	882	885	887
330	890	893	895	898	900	903	905	908	910	913
340	915	918	920	923	925	928	930	933	935	937

TIME	0	1	2	3	4	5	6	7	8	9
350	940	942	945	947	950	952	955	957	960	962
360	965	967	970	973	975	977	980	982	985	987
370	990	992	995	997	999	1002	1004	1006	1009	1011
380	1014	1016	1019	1021	1024	1026	1029	1031	1034	1036
390	1039	1041	1044	1046	1049	1051	1054	1056	1058	1061
400	1063	1066	1068	1071	1073	1076	1078	1081	1083	1086
410	1088	1090	1093	1095	1098	1100	1103	1105	1107	1110
420	1112	1115	1117	1120	1122	1124	1127	1129	1132	1134
430	1137	1139	1142	1144	1147	1149	1151	1154	1156	1159
440	1161	1164	1166	1169	1172	1174	1177	1179	1182	1185
450	1187	1190	1192	1195	1197	1200	1202	1205	1208	1210
460	1213	1216	1218	1221	1223	1226	1229	1231	1234	1237
470	1239	1242	1244	1247	1250	1252	1255	1257	1260	1262
480	1265	1268	1270	1273	1275	1277	1280	1282	1285	1287
490	1290	1292	1295	1297	1300	1302	1305	1308	1310	1313
500	1315	1318	1321	1323	1326	1329	1331	1334	1337	1339
510	1342	1344	1347	1349	1352	1354	1357	1359	1362	1364
520	1367	1369	1372	1374	1377	1380	1382	1384	1387	1389
530	1392	1394	1397	1400	1402	1404	1407	1409	1412	1414
540	1417	1419	1422	1424	1427	1429	1432	1434	1437	1439
550	1441	1444	1446	1449	1451	1454	1456	1459	1461	1464
560	1466	1469	1471	1474	1476	1479	1481	1484	1486	1489
570	1491	1494	1496	1499	1501	1504	1507	1509	1512	1514
580	1517	1519	1522	1525	1527	1530	1532	1535	1538	1540
590	1543	1545	1548	1551	1553	1556	1558	1561	1563	1566
600	1569	1571	1574	1576	1579	1581	1584	1587	1589	1592
610	1595	1597	1600	1603	1605	1608	1610	1613	1615	1618
620	1620	1623	1625	1628	1630	1633	1635	1638	1640	1643
630	1645	1648	1650	1653	1655	1658	1660	1663	1665	1668
640	1671	1673	1676	1678	1681	1683	1685	1688	1690	1693
650	1695	1698	1700	1703	1705	1708	1710	1713	1715	1717
660	1720	1722	1725	1727	1730	1732	1735	1737	1739	1742
670	1744	1747	1749	1751	1754	1756	1759	1761	1763	1766
680	1768	1771	1773	1776	1778	1781	1783	1786	1788	1790
690	1793	1795	1798	1800	1803	1805	1807	1810	1812	1815
700	1817	1820	1823	1825	1828	1831	1833	1836	1838	1841
710	1843	1846	1849	1851	1854	1856	1859	1862	1864	1867
720	1869	1872	1874	1877	1879	1882	1884	1887	1889	1892
730	1894	1897	1899	1902	1904	1907	1909	1912	1914	1916
740	1919	1922	1924	1927	1929	1932	1934	1937	1940	1942
750	1945	1947	1950	1952	1955	1957	1960	1963	1965	1968
760	1970	1973	1976	1978	1981	1983	1986	1988	1991	1993
770	1996	1998	2001	2004	2006	2009	2011	2014	2016	2019
780	2021	2024	2026	2028	2031	2033	2036	2038	2041	2043
790	2046	2048	2051	2053	2056	2058	2061	2063	2066	2068
800	2071	2073	2076	2078	2081	2084	2086	2089	2091	2094
810	2096	2099	2101	2104	2106	2109	2111	2113	2116	2118
820	2120	2123	2126	2129	2132	2135	2139	2142	2145	2148

TIME	0	1	2	3	4	5	6	7	8	9
830	2152	2155	2158	2161	2165	2168	2171	2174	2177	2181
840	2184	2187	2190	2194	2197	2200	2203	2206	2210	2213
850	2216	2219	2222	2226	2229	2232	2235	2239	2242	2245
860	2248	2252	2255	2258	2262	2265	2268	2272	2275	2278
870	2281	2284	2288	2291	2294	2298	2301	2304	2307	2311
880	2314	2317	2321	2324	2327	2330	2334	2337	2340	2343
890	2347	2350	2354	2357	2361	2364	2368	2371	2375	2378
900	2382	2385	2389	2392	2396	2399	2403	2407	2410	2414
910	2417	2421	2424	2428	2431	2434	2438	2442	2445	2449
920	2452	2456	2459	2463	2466	2470	2473	2477	2480	2483
930	2487	2490	2493	2497	2500	2503	2506	2510	2513	2516
940	2519	2522	2525	2529	2532	2535	2538	2542	2545	2548
950	2551	2555	2558	2561	2564	2567	2571	2574	2577	2580
960	2584	2587	2590	2593	2596	2600	2603	2606	2609	2613
970	2616	2619	2623	2626	2629	2633	2636	2640	2643	2647
980	2650	2653	2657	2660	2664	2667	2670	2674	2677	2681
990	2684	2687	2690	2693	2697	2700	2703	2707	2710	2713
1000	2717	2720	2723	2727	2730	2733	2737	2740	2743	2747
1010	2750	2753	2757	2760	2763	2767	2770	2773	2776	2780
1020	2783	2786	2790	2793	2796	2799	2803	2806	2810	2813
1030	2816	2820	2823	2826	2830	2833	2836	2840	2843	2846
1040	2849	2853	2856	2860	2863	2866	2870	2873	2876	2879
1050	2883	2886	2890	2893	2896					

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4.4 DEPTH/TIME INFORMATION

GEPHONE REFERENCE ELEVATION 125.00 M ABOVE SEA LEVEL
 DATUM ELEVATION 0.00 M ABOVE SEA LEVEL
 DATUM CORRECT. VELOCITY 4000.00 M /SEC

ALL TIMES ARE TWO-WAY TIMES CORRECTED TO DATUM
 INTERPOLATED EVERY 10.00 M

DEPTH	0	10	20	30	40	50	60	70	80	90
0		2	4	6	7	9	11	14	17	21
100	25	29	33	37	40	44	48	52	55	59
200	62	66	69	73	77	81	85	89	93	97
300	101	105	109	113	116	120	124	128	132	136
400	140	144	148	152	156	160	164	167	170	173
500	177	180	183	186	189	193	196	199	203	206
600	210	214	217	221	225	229	233	237	240	244
700	248	253	257	260	265	269	274	278	282	287
800	291	295	300	305	309	314	318	322	326	330
900	334	338	342	346	350	354	358	362	366	370
1000	374	378	382	387	390	394	399	403	407	411
1100	415	419	423	427	431	435	439	443	447	451
1200	455	459	463	466	470	474	478	482	486	490
1300	494	498	502	505	509	513	517	521	525	529
1400	533	537	541	545	549	553	557	562	566	569
1500	573	577	581	585	589	593	597	601	604	608
1600	612	616	620	624	628	632	636	640	644	648
1700	652	656	660	664	668	672	677	681	685	689
1800	693	697	701	705	709	713	716	720	724	728
1900	732	736	740	744	748	752	756	760	764	768
2000	772	776	780	784	788	792	796	800	804	808
2100	812	816	820	823	826	830	833	836	839	842
2200	845	848	851	854	857	861	864	867	870	873
2300	876	879	882	885	888	891	894	897	899	902
2400	905	908	911	914	917	919	922	925	928	931
2500	934	937	940	943	946	950	953	956	959	962
2600	965	968	971	974	977	980	983	986	989	992
2700	995	998	1001	1004	1007	1010	1013	1016	1019	1022
2800	1025	1028	1031	1034	1037	1040	1043	1046	1049	1052

NALCOR ENERGY INC.
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4.5 TIME / DEPTH INFORMATION TABLE

DATUM ELEVATION 0.00 M ABOVE SEA LEVEL
DATUM CORRECT. VELOCITY 4000.00 M /SEC

* = NOT USED IN VELOCITY COMPUTATIONS

MEASURED GEOPHONE DEPTH	VERTICAL GEOPHONE DEPTH	DATUM GEOPHONE DEPTH	RAW PICK TIME	1-WAY VERTICAL TIME	2-WAY VERTICAL TIME
(M)	(M)	(M)	(MS)	(MS)	(MS)
25.0	25.0	-100.0	16.12	-25.56	-51.11 *
40.0	40.0	-85.0	16.54	-22.55	-45.10 *
55.0	55.0	-70.0	17.98	-19.43	-38.86 *
70.0	70.0	-55.0	19.53	-16.49	-32.98 *
100.0	100.0	-25.0	23.02	-11.04	-22.08 *
115.0	115.0	-10.0	25.41	-8.07	-16.13 *
130.0	130.0	5.0	27.35	-5.57	-11.14 *
145.0	145.0	20.0	30.05	-2.50	-5.01 *
175.0	175.0	50.0	34.71	2.80	5.60 *
190.0	190.0	65.0	37.71	6.00	12.01
205.0	205.0	80.0	40.20	8.70	17.40
220.0	220.0	95.0	42.96	11.63	23.26
250.0	250.0	125.0	48.60	17.55	35.09
265.0	265.0	140.0	50.92	20.00	40.01
280.0	280.0	155.0	53.59	22.78	45.57
295.0	295.0	170.0	56.49	25.78	51.56
325.0	325.0	200.0	61.75	31.21	62.41
340.0	340.0	215.0	64.56	34.09	68.19 *
355.0	355.0	230.0	66.84	36.44	72.88
370.0	370.0	245.0	69.76	39.42	78.84
400.0	400.0	275.0	75.75	45.51	91.01
415.0	415.0	290.0	78.85	48.65	97.31
430.0	430.0	305.0	80.34	50.21	100.41 *
445.0	445.0	320.0	84.58	54.47	108.93
475.0	475.0	350.0	89.97	59.94	119.88
490.0	490.0	365.0	93.35	63.35	126.69
505.0	505.0	380.0	95.95	65.97	131.95
520.0	520.0	395.0	98.97	69.02	138.04
550.0	550.0	425.0	104.88	74.99	149.97
565.0	565.0	440.0	108.04	78.17	156.34
580.0	580.0	455.0	110.89	81.05	162.09
595.0	595.0	470.0	113.23	83.41	166.83
610.0	610.0	485.0	114.90	85.11	170.23 *
625.0	625.0	500.0	118.03	88.27	176.53

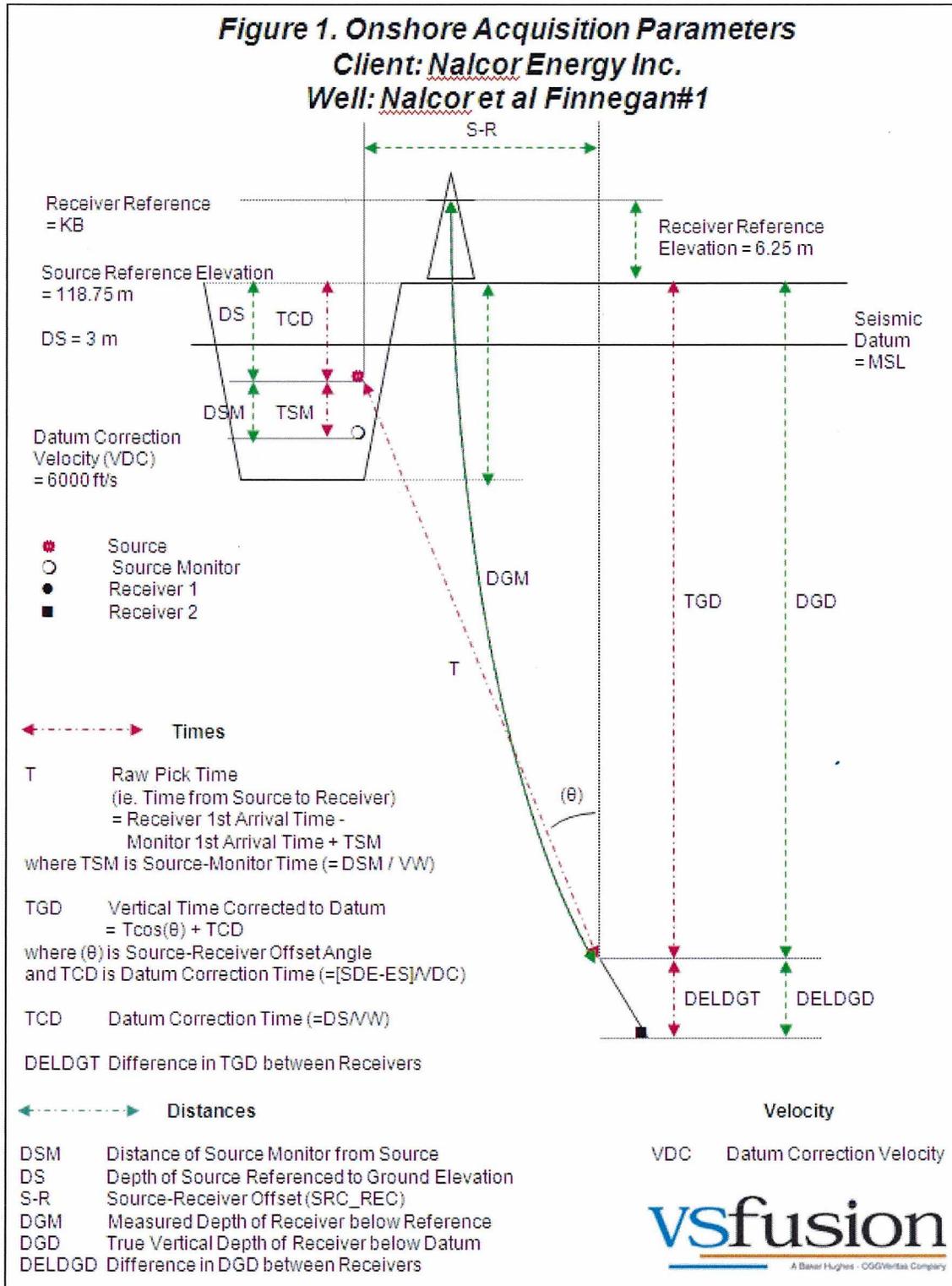
MEASURED GEOPHONE DEPTH	VERTICAL GEOPHONE DEPTH	DATUM GEOPHONE DEPTH	RAW PICK TIME	1-WAY VERTICAL TIME	2-WAY VERTICAL TIME
(M)	(M)	(M)	(MS)	(MS)	(MS)
640.0	640.0	515.0	120.31	90.56	181.12
655.0	655.0	530.0	122.73	93.00	186.01
670.0	670.0	545.0	125.09	95.38	190.77
685.0	685.0	560.0	127.73	98.04	196.09
700.0	700.0	575.0	130.13	100.46	200.93
715.0	715.0	590.0	132.77	103.12	206.24
730.0	730.0	605.0	135.69	106.05	212.10
745.0	745.0	620.0	138.26	108.64	217.28
760.0	760.0	635.0	141.11	111.51	223.01
775.0	775.0	650.0	144.18	114.58	229.17
790.0	790.0	665.0	146.90	117.31	234.63
805.0	805.0	680.0	149.73	120.16	240.31
820.0	820.0	695.0	152.66	123.10	246.20
835.0	835.0	710.0	155.95	126.40	252.81
850.0	850.0	725.0	158.81	129.27	258.54
865.0	865.0	740.0	162.20	132.67	265.35
880.0	880.0	755.0	165.88	136.35	272.71 *
895.0	895.0	770.0	168.44	138.93	277.86
910.0	910.0	785.0	171.87	142.36	284.72
925.0	925.0	800.0	175.09	145.59	291.18
940.0	940.0	815.0	178.57	149.08	298.16
955.0	955.0	830.0	181.99	152.51	305.02
970.0	970.0	845.0	185.31	155.84	311.68
985.0	985.0	860.0	188.66	159.19	318.37
1000.0	1000.0	875.0	191.41	161.95	323.90
1015.0	1015.0	890.0	194.67	165.22	330.43
1030.0	1030.0	905.0	197.34	167.90	335.79
1045.0	1045.0	920.0	200.42	170.99	341.97
1060.0	1060.0	935.0	203.07	173.64	347.27 *
1075.0	1075.0	950.0	206.47	177.05	354.09
1090.0	1090.0	965.0	209.31	179.89	359.78
1105.0	1105.0	980.0	212.61	183.20	366.40
1120.0	1120.0	995.0	215.37	185.97	371.94
1135.0	1135.0	1010.0	218.84	189.43	378.87
1150.0	1150.0	1025.0	221.51	192.11	384.23
1165.0	1165.0	1040.0	224.79	195.40	390.80
1180.0	1180.0	1055.0	227.78	198.39	396.78
1195.0	1195.0	1070.0	230.63	201.25	402.49
1210.0	1210.0	1085.0	233.68	204.31	408.62
1225.0	1225.0	1100.0	237.02	207.65	415.30
1240.0	1240.0	1115.0	239.82	210.46	420.91
1255.0	1255.0	1130.0	243.19	213.83	427.66
1270.0	1270.0	1145.0	245.92	216.56	433.13
1285.0	1285.0	1160.0	249.22	219.87	439.74

MEASURED GEOPHONE DEPTH	VERTICAL GEOPHONE DEPTH	DATUM GEOPHONE DEPTH	RAW PICK TIME	1-WAY VERTICAL TIME	2-WAY VERTICAL TIME
(M)	(M)	(M)	(MS)	(MS)	(MS)
1300.0	1300.0	1175.0	251.95	222.61	445.22
1315.0	1315.0	1190.0	254.97	225.63	451.27
1330.0	1330.0	1205.0	257.91	228.57	457.15
1345.0	1345.0	1220.0	260.78	231.44	462.89
1360.0	1360.0	1235.0	263.58	234.25	468.51
1375.0	1375.0	1250.0	266.58	237.26	474.52
1390.0	1390.0	1265.0	269.24	239.93	479.85
1405.0	1405.0	1280.0	272.42	243.11	486.21
1420.0	1420.0	1295.0	275.29	245.98	491.96
1435.0	1435.0	1310.0	278.24	248.93	497.87
1450.0	1450.0	1325.0	280.94	251.64	503.28
1465.0	1465.0	1340.0	284.04	254.74	509.48
1480.0	1480.0	1355.0	286.81	257.51	515.03
1495.0	1495.0	1370.0	289.90	260.61	521.21
1510.0	1510.0	1385.0	292.76	263.47	526.94
1525.0	1525.0	1400.0	295.98	266.70	533.39
1540.0	1540.0	1415.0	298.69	269.41	538.83
1555.0	1555.0	1430.0	302.01	272.73	545.46
1570.0	1570.0	1445.0	305.01	275.73	551.47
1585.0	1585.0	1460.0	307.79	278.52	557.04
1600.0	1600.0	1475.0	311.17	281.90	563.79
1615.0	1615.0	1490.0	314.08	284.82	569.64
1630.0	1630.0	1505.0	316.78	287.52	575.04
1645.0	1645.0	1520.0	319.94	290.68	581.36
1660.0	1660.0	1535.0	322.64	293.38	586.76
1675.0	1675.0	1550.0	325.78	296.52	593.05
1690.0	1690.0	1565.0	328.47	299.22	598.45
1705.0	1705.0	1580.0	331.59	302.34	604.69
1720.0	1720.0	1595.0	334.79	305.55	611.10 *
1735.0	1735.0	1610.0	337.19	307.94	615.89
1750.0	1750.0	1625.0	340.27	311.03	622.06
1765.0	1765.0	1640.0	343.11	313.87	627.75
1780.0	1780.0	1655.0	346.15	316.92	633.84
1795.0	1795.0	1670.0	350.28	321.04	642.08 *
1810.0	1810.0	1685.0	352.02	322.79	645.58
1825.0	1825.0	1700.0	355.24	326.01	652.02
1840.0	1840.0	1715.0	358.19	328.96	657.93
1855.0	1855.0	1730.0	361.38	332.16	664.31
1870.0	1870.0	1745.0	363.14	333.92	667.85 *
1885.0	1885.0	1760.0	367.29	338.07	676.15
1900.0	1900.0	1775.0	370.62	341.41	682.81
1915.0	1915.0	1790.0	373.63	344.42	688.84
1930.0	1930.0	1805.0	376.83	347.62	695.24
1945.0	1945.0	1820.0	379.66	350.45	700.90

MEASURED GEOPHONE DEPTH	VERTICAL GEOPHONE DEPTH	DATUM GEOPHONE DEPTH	RAW PICK TIME	1-WAY VERTICAL TIME	2-WAY VERTICAL TIME
(M)	(M)	(M)	(MS)	(MS)	(MS)
1960.0	1960.0	1835.0	382.68	353.47	706.95
1975.0	1975.0	1850.0	385.56	356.36	712.71
1990.0	1990.0	1865.0	388.13	358.92	717.85
2005.0	2005.0	1880.0	391.31	362.11	724.22
2020.0	2020.0	1895.0	394.14	364.94	729.88
2035.0	2035.0	1910.0	397.47	368.27	736.55
2050.0	2050.0	1925.0	400.23	371.03	742.07
2065.0	2065.0	1940.0	403.43	374.24	748.48
2080.0	2080.0	1955.0	405.91	376.71	753.43
2095.0	2095.0	1970.0	409.16	379.97	759.93
2110.0	2110.0	1985.0	411.82	382.63	765.26
2125.0	2125.0	2000.0	415.02	385.83	771.67
2140.0	2140.0	2015.0	418.15	388.96	777.93 *
2155.0	2155.0	2030.0	421.16	391.98	783.96
2170.0	2170.0	2045.0	424.14	394.96	789.92
2185.0	2185.0	2060.0	427.21	398.03	796.07
2200.0	2200.0	2075.0	430.26	401.08	802.15
2215.0	2215.0	2090.0	433.08	403.90	807.80
2230.0	2230.0	2105.0	436.10	406.92	813.85
2245.0	2245.0	2120.0	438.95	409.78	819.56
2260.0	2260.0	2135.0	441.58	412.41	824.82
2275.0	2275.0	2150.0	443.92	414.75	829.50
2290.0	2290.0	2165.0	446.21	417.04	834.08
2305.0	2305.0	2180.0	448.47	419.31	838.61
2320.0	2320.0	2195.0	450.95	421.78	843.57
2335.0	2335.0	2210.0	453.43	424.26	848.53
2350.0	2350.0	2225.0	454.86	425.70	851.40 *
2365.0	2365.0	2240.0	457.99	428.83	857.65
2380.0	2380.0	2255.0	460.31	431.15	862.30
2395.0	2395.0	2270.0	462.57	433.41	866.83
2410.0	2410.0	2285.0	464.00	434.85	869.70 *
2425.0	2425.0	2300.0	467.17	438.02	876.03
2440.0	2440.0	2315.0	469.37	440.22	880.43
2455.0	2455.0	2330.0	472.67	443.52	887.04 *
2470.0	2470.0	2345.0	473.73	444.58	889.15
2485.0	2485.0	2360.0	476.15	447.00	894.00 *
2500.0	2500.0	2375.0	478.01	448.86	897.72
2515.0	2515.0	2390.0	480.38	451.24	902.47
2530.0	2530.0	2405.0	482.38	453.24	906.48
2545.0	2545.0	2420.0	484.55	455.41	910.83
2560.0	2560.0	2435.0	486.81	457.68	915.35
2575.0	2575.0	2450.0	490.04	460.90	921.81 *
2590.0	2590.0	2465.0	490.93	461.79	923.58
2605.0	2605.0	2480.0	493.12	463.99	927.98

MEASURED GEOPHONE DEPTH	VERTICAL GEOPHONE DEPTH	DATUM GEOPHONE DEPTH	RAW PICK TIME	1-WAY VERTICAL TIME	2-WAY VERTICAL TIME
(M)	(M)	(M)	(MS)	(MS)	(MS)
2620.0	2620.0	2495.0	495.58	466.44	932.89
2635.0	2635.0	2510.0	497.72	468.59	937.18
2650.0	2650.0	2525.0	500.05	470.92	941.83
2665.0	2665.0	2540.0	502.43	473.30	946.60
2680.0	2680.0	2555.0	504.61	475.48	950.97
2695.0	2695.0	2570.0	507.20	478.07	956.15
2710.0	2710.0	2585.0	509.23	480.10	960.20
2725.0	2725.0	2600.0	511.72	482.59	965.19
2740.0	2740.0	2615.0	513.85	484.73	969.46
2755.0	2755.0	2630.0	516.42	487.30	974.59
2770.0	2770.0	2645.0	518.45	489.33	978.67
2785.0	2785.0	2660.0	520.55	491.43	982.87
2800.0	2800.0	2675.0	522.87	493.76	987.51
2815.0	2815.0	2690.0	525.36	496.24	992.49
2830.0	2830.0	2705.0	527.30	498.18	996.37
2845.0	2845.0	2720.0	529.66	500.54	1001.09
2860.0	2860.0	2735.0	532.02	502.91	1005.82
2875.0	2875.0	2750.0	534.01	504.90	1009.80
2890.0	2890.0	2765.0	535.32	506.21	1012.42 *
2905.0	2905.0	2780.0	538.56	509.45	1018.91
2920.0	2920.0	2795.0	541.10	512.00	1023.99
2935.0	2935.0	2810.0	543.07	513.96	1027.93
2950.0	2950.0	2825.0	545.44	516.33	1032.66
2965.0	2965.0	2840.0	547.53	518.42	1036.85
2980.0	2980.0	2855.0	550.05	520.95	1041.89
2995.0	2995.0	2870.0	551.99	522.88	1045.77
3010.0	3010.0	2885.0	554.68	525.58	1051.16

5. FIGURES



Source - Receiver locations
Plan View

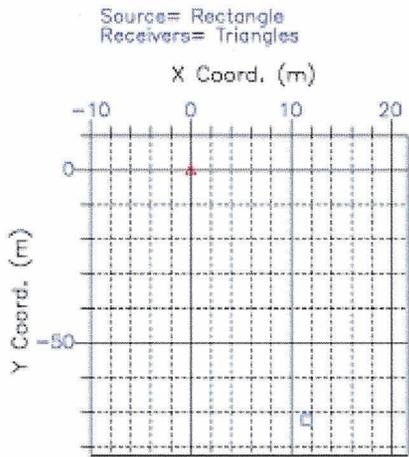
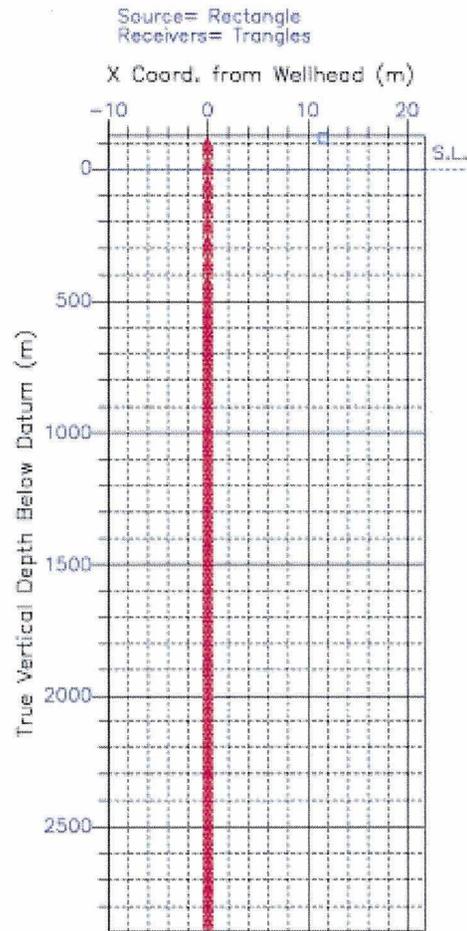


Figure 2: Survey Configurations
Client: Nalcor energy Inc.
Well: Nalcor et al Finnegan#1
Field: Finnegan

East - West Coordinates
Side View (XZ - Plane)



North - South Coordinates
Side View (YZ - Plane)

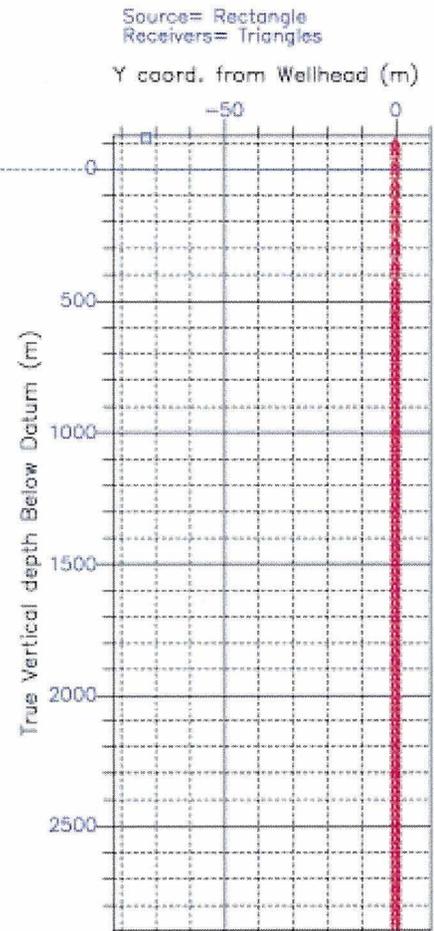
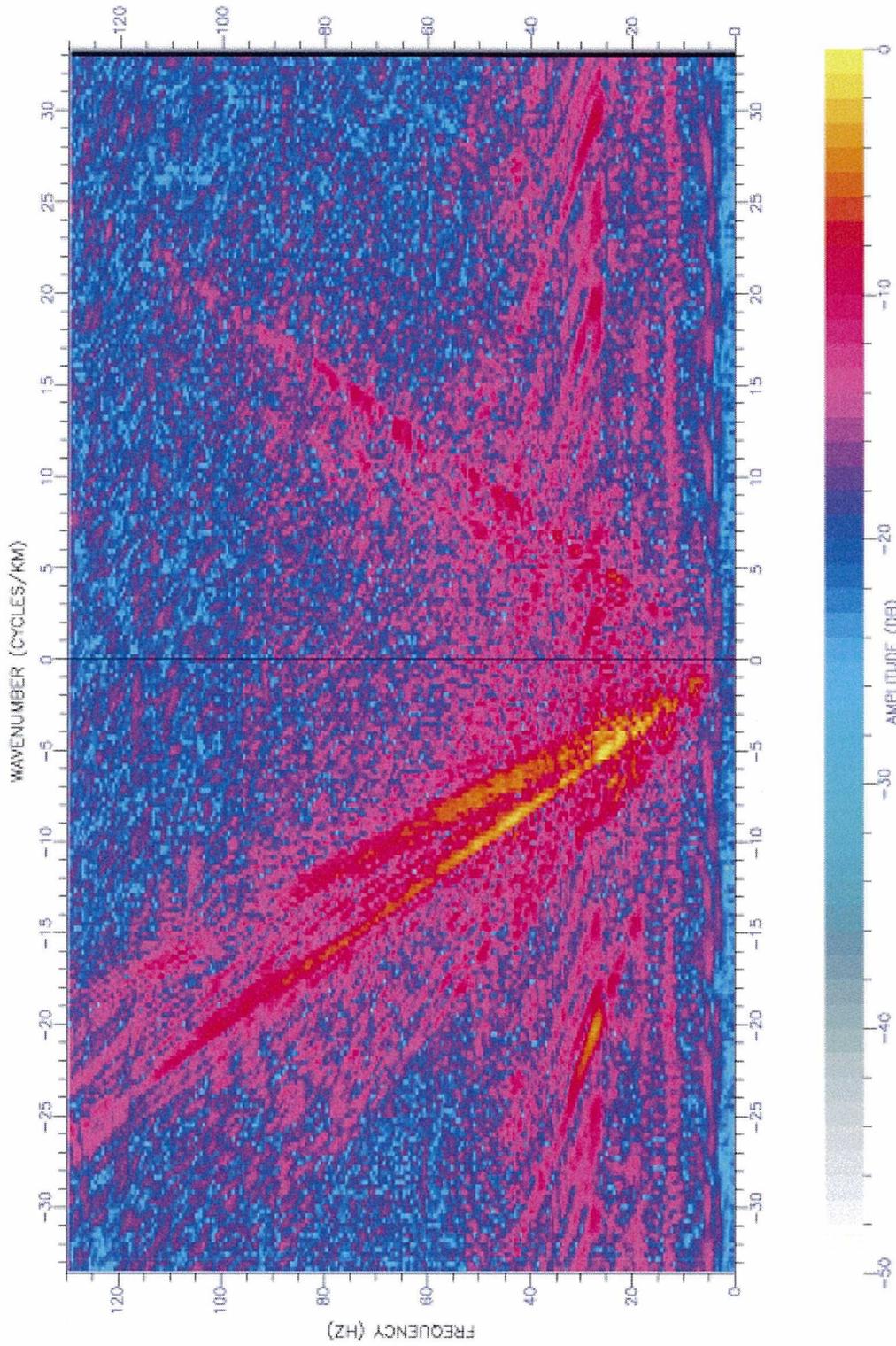


Figure 3: F-K Analysis for Raw Total Wavefield
(Vertical Component)
(Time window: from 0 ms to 1200 ms)



ASurion

A Baker Hughes - OGS/Nuvera Company



Appendix P – Core Analysis

CORE LABORATORIES

Company : NALCOR ENERGY OIL AND GAS	Field : UNSPECIFIED	File No. : 52131-11-0007
Well : NALCOR FINNEFAN	Formation : VARIOUS	Date : 2011-01-04
Location : UNSPECIFIED	Coring Equip : ROTARY SIDEWELL	Analysts : DJB
Province : NEWFOUNDLAND	Coring Fluid : UNSPECIFIED	Core Dia : 25.4 mm

CORE ANALYSIS RESULTS

SAMPLE NUMBER	SPOT DEPTH m	UNSTEADY STATE PRESSURE DECAY PERMEABILITY kair	POROSITY (HELIUM) fraction	BULK DENSITY (kg/m3)	GRAIN DENSITY (kg/m3)	DESCRIPTION
SP 25	1073.05	0.011	0.030	2630	2710.	ss vf f calc
SP 22	1162.06	0.003	0.001	2710	2710.	sltst calc
SP 20	1214.94	0.010	0.014	2680	2720.	sltst
SP 16	1486.59	0.007	0.003	2650	2660.	ls i
SP 15	1525.58	0.008	0.006	2650	2670.	ss vf f calc
SP 12	1576.05	0.006	0.006	2690	2710.	sltst calc lam
SP 10	1683.96	0.009	0.005	2660	2670.	ss vf f calc
SP 6	1974.02	*	*	*	2680.	ss vf calc GD ONLY
SP 5	2052.97	0.006	0.001	2690	2690.	ss vf slty dol
SP 3	2131.99	0.008	0.001	2720	2720.	sltst dol
SP 1	2264.99	0.003	0.003	2700	2710.	ls i