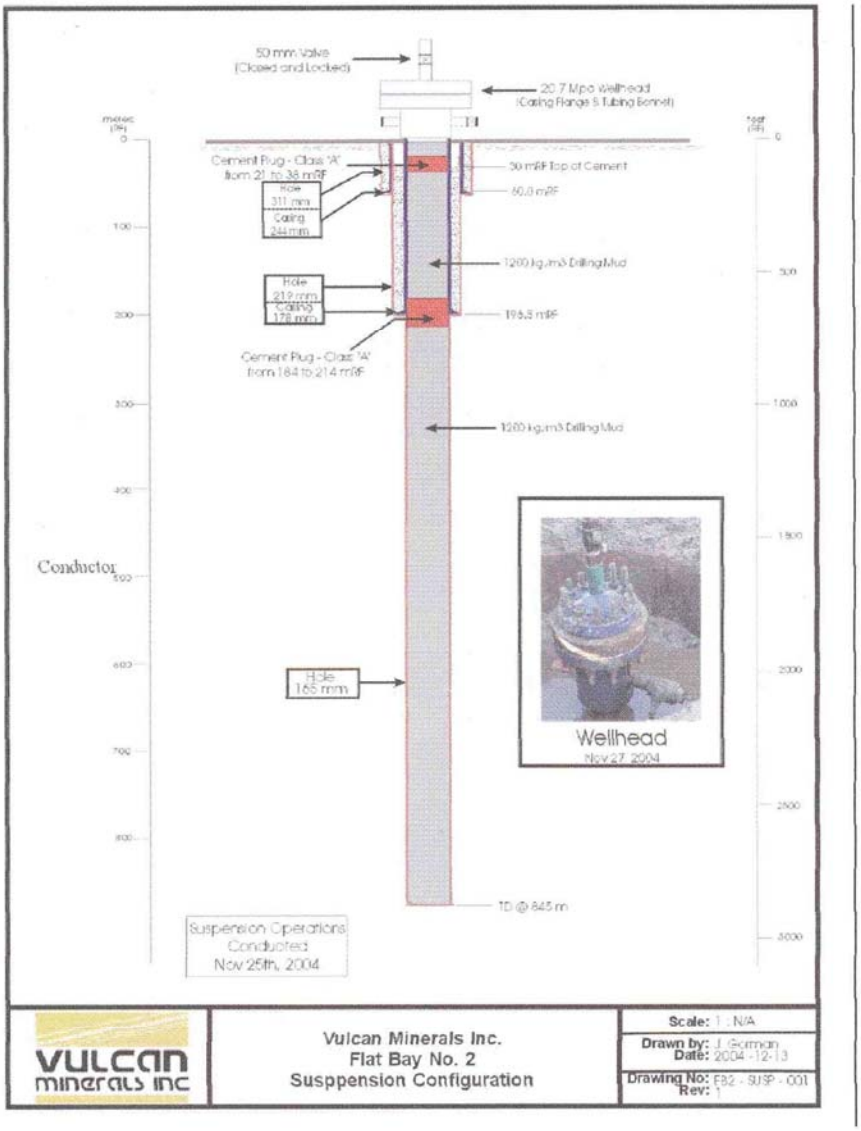
VULCAN
minerals inc

FINAL WELL REPORT



FINAL WELL REPORT

Revision:	**Version 1**
Operating Company:	**Vulcan Minerals Inc**
Well Name:	**Flat Bay #2a & #2**
Rig:	**Rose Drilling RD10**
Field:	**Flat Bay**
Location:	**St. Georges Bay,** **Western Newfoundland, Canada**

Prepared by: Karla Smith, Vulcan Minerals Joe Gorman, P.Eng, Namrog Services Date:	Reviewed by: Patrick Laracy, Vulcan Minerals Date:

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1 Introduction

Flat Bay #2 was the second well drilled by the operator, Vulcan Minerals Inc., in the Flat Bay field located in St. Georges Bay, Newfoundland. (See map in Appendix A). The purpose of the well was to gather geological and geophysical data as a means to evaluate the economical potential of future field exploration and development for crude oil and/or natural gas production.

The drilling contractor Rose Resource Drilling Inc. agreed to use the rig RD10, a single-type rig with 210-hp (156-kW) rating and a 70000-lb (31750-kg) hookload.

The 845.6-m from rig floor (RF) vertical well was drilled in accordance with the Drilling Program Approval #DPA2004-116-01 and Authority to Drill Well #ADW2004-116-01-01 under Permit #03-106 (see Appendix B).

After abandoning the original hole Flat Bay #2a that was drilled to a total depth of 175-mRF due to difficulties of hole problems (see section 3.1), the rig was moved approximately 10-m east of the original location where Flat Bay #2 was spudded on 2004-10-24 by setting 341-mm conductor casing at 5-mRF. The 311-mm hole was drilled to 61.5-m then the 245-mm casing was set to 60-m and cemented into place with cement to surface. The hole was air drilled with a 216-mm BHA to 164-mRF then the well was displaced to mud and drilled to 198.7-mRF without losses. 245-mm casing was run to 178.04-mRF and cemented into place with pre-flush returns to surface. Blow out preventors were nippled up and hi-low pressured tested against surface casing. Formation integrity test was executed at 200-m resulting in a calculated pressure gradient of 16.2-kPa/m. The hole was continued through the Lower Codroy Group, the Ship Cove formation and into the Fishell's Brook formation with a 165-mm BHA to a total depth of 845.4-mRF. Open hole logs that included HRLA + CNL + DSI + MCFL + TLD + Caliper were run to 845-m. The formation flow test recorded at 722.3-mKB and 734.8-mFB showed lack of pressure build up indicating no flow of oil, gas, or water. The well was suspended with two cemented plugs located from 214-m to 184-m and 38-m to 21-m.

2 General Information

Well Name	Flat Bay #2a	Flat Bay #2
Exploration Permit	03-106	
Drilling Program Approval	DPA 2004-116-01	
Authority to Drill Well	ADW 2004-116-01-01	
NAD 27 Coordinates	N 5359965.033 E 386708.972	N 5359963.881 E 386697.341
Survey System	A differential GPS survey was carried out at Flat Bay to determine the location of the two wells. The coordinates are UTM Grid, NAD27, Zone 21 and the combined scale factor is 0.999757. The results of the survey indicate that the coordinates are accurate to within 0.02-m. The site is about 4550-m from C.M. 84G4148 with coordinates listed of N 5361647.371 E 382471.410 and elevation of 25.81-m.	

See Appendix A for Legal Survey completed by R. Davis Surveys Ltd.

3 Difficulties and Delays

3.1 Abandoned Original Hole – Flat Bay #2a

The initial well, entitled Flat Bay #2a, was spudded on 2004-09-27 and 341-mm conductor casing was set at 5-mRF. The 311-mm hole was drilled to 57.3-m then the 245-mm casing was set to 46.9-m and cemented into place with cement to surface.

After drilling out the casing shoe at 46.9-m, sloughing of the overburden was experienced that led to the execution of a remedial job and squeeze cement at the casing shoe. The rig was on hold for 78-hours, or five and a half days based on 12-hour shifts, while waiting on pump to complete the remedial cement job. The operations to squeeze the cement around the casing shoe and drill out cement shoe took a total of 36-hours, or three-days based on 12-hour shifts. The operations sequence consisted of rigging up the pump, reaming and circulating the hole clean with bit, running in the hole open ended to 53-mRF, pumping remedial cement job around shoe (0.5-m^3 H_2O pre-flush and 3.75-m^3 15.3-ppg Class A cement), closing the diverter, squeezing 2-m^3 around shoe, pulling out of the hole, waiting on cement, and drilling out the shoe.

The hole was continued with a 216-mm BHA to 155-mRF where a lost circulation zone was found. After regaining circulation, the well was drilled to TD at 175-mRF when circulation was lost again and attempted to regain were unsuccessful. The well was then shut in with a total fluid loss of 20-m^3 and rig released on 2004-10-22. On 2004-10-26 Flat Bay #2a, a cement plug place on top of natural bridge that formed at the shoe from 45-mRF to surface. The 244.5-mm casing was then cut 1-m below ground level and abandoned without footprint.

3.2 Fishing Job – Flat Bay #2

On 2004-11-06 while air drilling the 165-mm hole on Flat Bay #2, the hammer bit failed at a depth of 420-mRF. At surface it was observed that the hammer bit was broken leaving metal in the hole. Fishing operations were conducted by the rig crew and the metal brought to surface for a total time lost of 17-hours.

3.3 Wait on DST Testers – Flat Bay #2

Due to logistical problems with Holland Testers Ltd equipment, ten-hours of operational time were lost on 2004-11-22 while waiting on services to complete the drill stem test.

4 Drilling Operations

4.1 Elevation

Well Name	Flat Bay #2a	Flat Bay #2
Ground Level	56.15-m MSL	55.45-m MSL
Casing Flange	Not Applicable	55.95-m MSL
Rig Floor	58.95-m MSL	58.25-m MSL

4.2 Total Depth

Well Name	Flat Bay #2a	Flat Bay #2
Total Drilled Depth	175-mRF	845.6-mRF
Logged Depth	Not Applicable	845 to 196.5-mRF
Plugged-Back Depth	2.8-mRF	21-mRF

4.3 Important Dates and Status

Well Name	Flat Bay #2a	Flat Bay #2
Spud	2004-09-27	2004-10-23
Drilling Completed	2004-10-20 at 175-mRF	2004-11-19 at 845.6-mRF
Rig Release	2004-10-22	2004-11-25
Well Status	Abandoned	Suspended

4.4 Hole Sizes and Depths

Well Name	Flat Bay #2a	Flat Bay #2
311-mm Hole	57.3-mRF	61.5-mRF
216-mm Hole	175-mRF	198.7-mRF
165-mm Hole	Not Applicable	845.6-mRF

4.5 Bit Records

Flat Bay #2a								
Bit Number	Size [mm]	Type	Depth In [mRF]	Depth Out [mRF]	Meterage [m]	Hours [h]	ROP [m/h]	Pulled Condition
1	311	Insert Tooth Tricone	2.8	57.3	54.5	16	3.4	
2	216	Security Tricone	57.3	175	117.7	22	5.4	

Flat Bay #2								
Bit Number	**Size [mm]**	**Type**	**Depth In [mRF]**	**Depth Out [mRF]**	**Meterage [m]**	**Hours [h]**	**ROP [m/h]**	**Pulled Condition**
1	311	Insert Tooth Tricone	2.8	9.2	6.4	3	2.1	
2	216	Mill Tooth Tricone	9.2	61.5	52.3	10	5.2	
3	216	Air Insert	61.5	164.0	92.5	11	8.4	
4	216	Security Tricone	164.0	198.7	44.7	8	5.6	
5	165	Drillmaster Air Insert	198.7	420.0	221.3	6	36.9	Broken
6	165	Mission Air Insert	420.0	638.0	218	7	31.1	
7	165	Smith F3	638.0	823.0	185	45.5	4.1	
8	165	Smith F3	823.0	845.6	22.4	15	1.5	

4.6 Casing Record

314-mm cellar line pipe was installed at 5-mRF for both Flat Bay#2a and Flat Bay#2.

Well Name	Flat Bay #2a	Flat Bay #2	
Casing Type	Conductor	Conductor	Surface
Casing Size [mm]	244.5	244.5	177.8
Weight [kg/m]	48.13	48.13	25.33
Grade	J-55	J-55	H-40
Number of Joints	4	5	15
Connection Type	8Rd Short	8Rd Short	8Rd Short
Depth of Shoe [mRF]	46.9	60	196.5
Casing Hanger and Seal	N/A	N/A	Casing Head Type NSB

4.7 Cementing Record

Well Name	Flat Bay #2a	Flat Bay #2	
Casing Size [mm]	244.5	244.5	177.8
Centralizer Spacing			As necessary
Cement Volume [sks]			7.2
Slurry Volume [m^3]	3	2.85	4.08
Slurry Density [kg/m^3]	1820	1820	1900
Cement Class	A	A	G
Cement Additives			5% BWOW D044 + 0.2 % BWOB D046
Cement Top [mRF]	2.8	2.8	30
Cement Base [mRF]	46.9	60	197
Basis of Top Estimate [Calc/CBL]	Visual	Visual	Calc

See Appendix C for Schlumberger cement proposals and service reports.

Based on time delay of fluid, it was decided that 75% cement excess would be used for cementing Flat Bay #2 177.8-mm casing. Although cement was not to surface as planned, 30-m of cement was place above the 244.5-m casing shoe.

4.8 Sidetracted Hole

Not applicable.

4.9 Drilling Fluid

Flat Bay #2 was drilled with air including during two depth intervals from 65.5-m RF to 164-m RF and 198.7-m RF to 638-m RF (64% of the well's total length). During these periods of air drilling, a reserve of weighted drilling fluid of at least 150% of hole volume was kept on sight as per section 74 of the Petroleum Drilling Regulations (CNR 1150/96).

Flat Bay #2 was drilled with gel water two depth intervals from 2.8-m RF to 65.5-m RF and 164-m RF to 198.7-m RF (11% of the well's total length). The gel water was comprised of water with Federal Gel and soda ash supplied by MI SWACO. The properties of the gel water included a viscosity 60-sec, 11pH, and mud weight of 1000-kg/m3. The entirety of Flat Bay #2a was drilled with gel water.

Finally, Flat Bay #2 was drilled with brine two depth intervals from 638-m RF to 845.6-m RF (25% of the well's total length). The brine solution was comprised of fresh water mixed with road salt supplied by A. Harvey & Company and soda ash supplied by MI SWACO. The properties of the brine included a minimum mud weight of 1120-kg/m3 that increased graduation to a final mud weight of 1200-kg/m3 at total depth of 845.6-mRF. The entirety of the ship cove formation (found at 650-mRF) was drilled overbalanced.

4.10 Fluid Disposal

While drilling Flat Bay #2a, a lost circulation zone was encountered at 155-m RF. Total gel water fluid loss was 20-m^3 (see Section 3.1).

No lost circulation was experienced while drilling Flat Bay #2 and as a result there was no downhole fluid disposal.

Pardy's Waste Management was contracted to dispose of the drilling fluid contained in mud tanks on site in accordance with Government regulations.

4.11 Well Kicks

Not applicable.

4.12 Formation Leak-Off Tests

Formation integrity test was executed on Flat Bay #2 at 200-m with 1100-kg/m3 mud weight to 1400-kPa that stabilized at 1035-kPa for a calculated pressure gradient of 16.2-kPa/m

4.13 Time Distribution

	Totals					
	Hours			Percentage of Time		
	FB #2a	FB #2	Both Wells	FB #2a	FB #2	Both Wells
Rig up/ Tear Out Misc Equipment	87.0	66.0	153.0	13.9%	8.3%	10.8%
Drilling	39.0	105.5	144.5	6.2%	13.3%	10.2%
Reaming Conditioning & Tripping	56.5	51.3	107.8	9.0%	6.5%	7.6%
Fishing & Working Pipe	1.0	13.3	14.3	0.2%	1.7%	1.0%
Rig Repairs	1.5	0.8	2.3	0.2%	0.1%	0.2%
Surveys, DST's & Logs	12.0	7.5	19.5	1.9%	0.9%	1.4%
Casing, Cementing, WOC and Drill Out	27.8	19.5	47.3	4.4%	2.5%	3.3%
Testing BOP's, Safety & Drills	0.8	10.3	11.0	0.1%	1.3%	0.8%
Waiting on Materials, Services & Dead Time	71.0	10.5	81.5	11.3%	1.3%	5.8%
SDFN & Sunday Shut Down	329.5	506.8	836.3	52.6%	64.0%	59.0%
Total Time	**626.0**	**791.3**	**1417.3**	**100.0%**	**100.0%**	**100.0%**
Total Operational Time (Not Including SDFN & Sunday Shutdown)	**296.5**	**284.5**	**581.0**			

4.14 Deviation Plot

A deviation survey was completed at approximately every 150-m.

Depth	Deviation	Measurement Tool
160-m	0.5°	Pajari
198.7-m	0.5°	Pajari
300-m	0.0°	Pajari
460-m	0.0°	Pajari
610-m	0.0°	Pajari
740.0-m	1.5° (maximum deviation)	Pajari

4.15 Abandonment/Suspension Plugs

Well Name	Flat Bay #2a	Flat Bay #2
Fluid Above Plug #1	Not applicable	1200-kg/m^3 brine
Cement Plug #1	2-m^3 Class A 1820-kg/m^3 cement from 45-mRF to surface	0.4-m^3 Class A 1820-kg/m^3 cement from 38-mRF to 21-mRF.
Fluid Below Plug #1	Gel water drilling fluid.	1200-kg/m^3 brine
Cement Plug #2	Not applicable	1-m^3 Class A 1820-kg/m^3 cement from 214-mRF to 184-mRF.
Fluid Below Plug #2	Not applicable	1200-kg/m^3 brine
Well Status	Abandoned	Suspended

4.16 Well Schematic

See Appendix D for well termination reports and well schematics.

4.17 Fluid Samples

Not applicable.

4.18 Composite Well Record

See Appendix E for composite well record and detailed time versus depth curve.

5 Geology

5.1 Drill Cuttings

See Appendix F geological report completed by Corey Fitzgerald.

5.2 Cores

Not applicable.

5.3 Lithology

See Appendix F geological report completed by Corey Fitzgerald.

5.4 Stratigraphic Column

See Appendix G.

5.5 Biostratigraphic Data

Not applicable.

6 Well Evaluation

6.1 Downhole Logs

Open Hole logging for Flat Bay #2.

Log Type	Depth Interval Logged
HRLA	845 to 196.5-m
CNL	845 to 196.5-m
DSI	845 to 196.5-m
MCFL	845 to 196.5-m
TLD	845 to 196.5-m
1-arm Caliper	845 to 196.5-m

See Appendix H for open hole well logs completed by Schlumberger.

6.2 Other Logs

Not applicable.

6.3 Synthetic Seismograms

Not applicable.

6.4 Vertical Seismic Profiles

Not applicable.

6.5 Velocity Surveys

Not applicable.

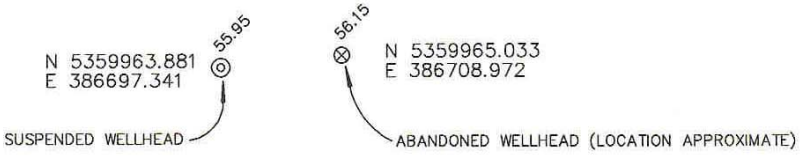
6.6 Formation Stimulation

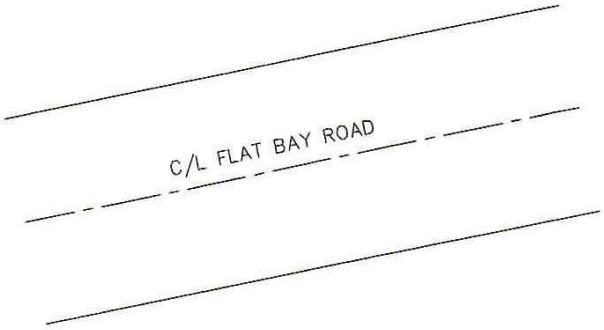
Not applicable.

6.7 Formation Flow Tests

See Appendix I for drill stem test report completed by Holland Testers Ltd.

APPENDIX A: WELL LOCATION & MAP

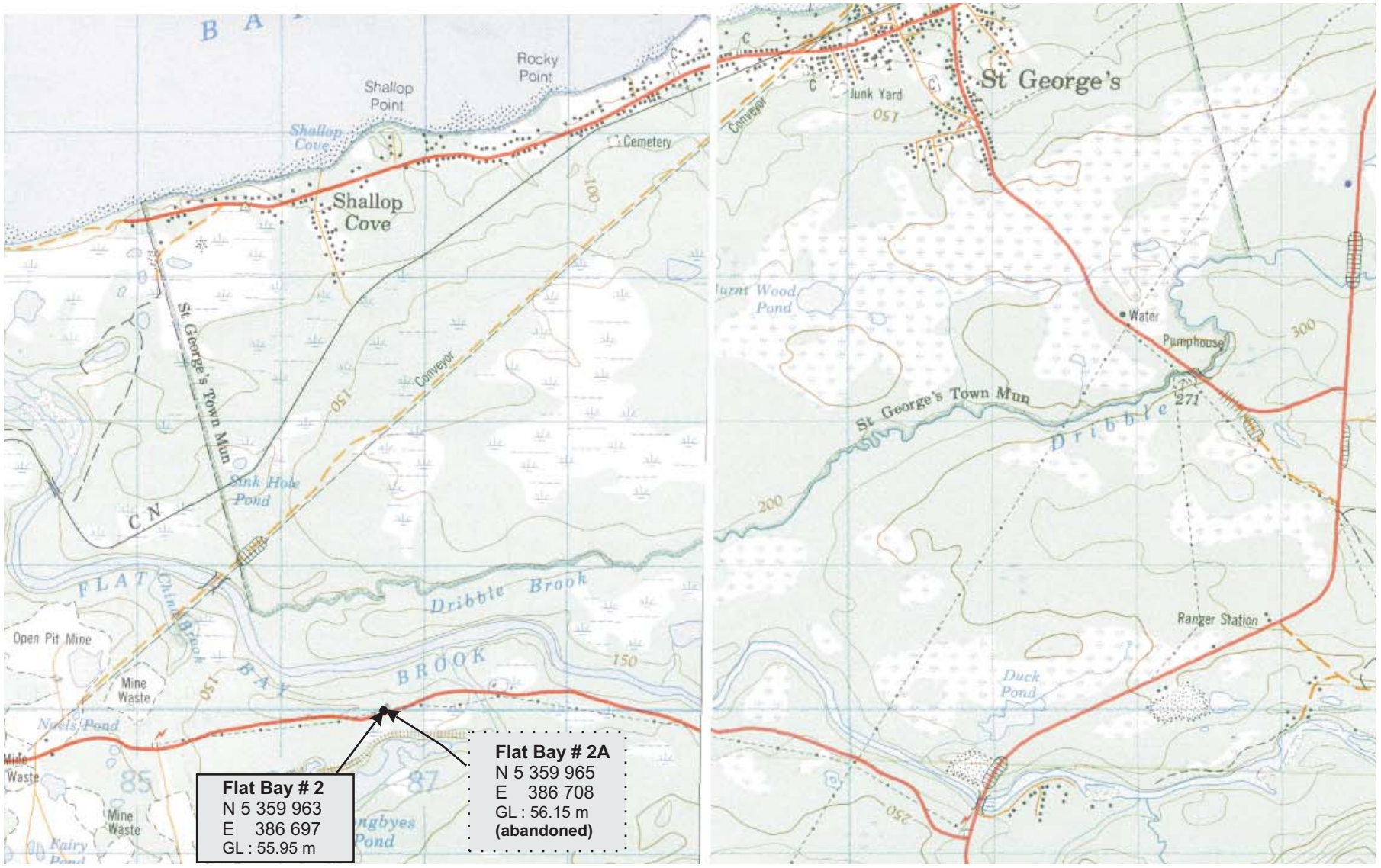




COORDINATES SHOWN ARE UTM, NAD27, ZONE21 AND ARE REFERENCED TO C.M. 84G4148 WITH COORDINATES OF N 5361647.371 E 382471.410 AND ELEVETION OF 25.810.

THE LOCATION OF THE ABANDONED WELHEAD IS APPROXIMATE AS WELLHEAD WAS NOT VISIBLE.

SCALE: 1 : 500	PLAN SHOWING LOCATION OF FLAT BAY # 2 WELL SUSPENDED WELLHEAD / ABANDONED WELLHEAD FLAT BAY ROAD, FLAT BAY, NL	DWG. NO.: 5002–1
DATE: JAN. 14, 2005	R. DAVIS SURVEYS LTD. P.O. BOX 449 STEPHENVILLE CROSSING, NL	DRAWN BY: R.D.



VULCAN MINERALS INC

LOCATION MAP
Flat Bay 2 and 2A Wells

Scale: 1:40 000 (approx)

Drawn by: J.E.G.
Date: 2005 - 02 - 02

Drawing No:
Rev:

APPENDIX B: DRILLING PROGRAM APPROVAL AND AUTHORITY TO DRILL WELL

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Natural Resources, Energy Branch

DRILLING PROGRAM APPROVAL - APPLICATION

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*[1], Vulcan Minerals Inc.,
as operator on behalf of Vulcan Minerals Inc., holding a
subsisting licence, permit or lease issued pursuant to the *Petroleum Regulations*[2], namely: Permit 03-105
(licence, permit, or lease #)

hereby applies for approval to conduct a drilling program using the drilling rig Rosa Resource Drilling Inc. - RDI0
and equipment and procedures described in the detailed program dated Aug 3, 2004 and as amended Sept 10 & 24th 2004
and revised Sept. 30th, 2004

The undersigned operator's Representative hereby declares that, to the best of the operator's knowledge, the information contained herein and in the attached detailed program is true, accurate and complete.

Signed: _____ Date: Sept. 27/04
Operator's Representative

APPROVAL

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*, the operator named in the Application is hereby authorized to conduct the proposed drilling program subject to the following conditions:

1. This Drilling Program Approval shall, unless otherwise extended or terminated, expire upon the 31st day of March, 20 05;

2. This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;

3. Evidence of financial responsibility, as required pursuant to Section 14 of the *Petroleum Drilling Regulations*[3], shall be provided by the operator to the Minister of Natural Resources;

4. The operator shall use the equipment and procedures described in the detailed program dated Aug. 3rd 2004 and as revised Sept. 10th, 24th, 2004 and Sept. 30th, 2004 unless a change in the equipment or procedures is approved in writing by the Director; and

5. The operator shall comply with such other conditions as are appended to this Approval.

Signed: _____
Director

Effective Date: October 02, 2004

Drilling Program Approval No. 2004-116-01

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[1] *R.S.N. 1990, c. P-10*
[2] *CNR 1151/96*
[3] *CNR 1150/96*

(Revised: Feb. 2004)

DPA 1150e.wpd

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Natural Resources, Energy Branch

AUTHORITY TO DRILL A WELL - APPLICATION

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*[1] and in compliance with section 29 of the *Petroleum Drilling Regulations*[2], Vulcan Minerals Inc., as operator, hereby applies for Authority to Drill a Well to be known as Vulcan Minerals Inc. - Flat Bay No. 2 using the equipment and procedures described in the well program dated Aug 31st, 2004 and as revised (Sept 10 & 27) 2004 and revised Sept 30th, 2004. Permit, Licence or Lease to which this Program applies: 03-106

Area:		CO-ORDINATES	
Field/Pool:		Long:	UTM (NAD 27)
		Lat:	Northing: 5,360,900
Drilling Rig:			Easting: 386,675
Rig Type: RD10		ELEVATION	DEPTH
Drilling Contractor: Rose Resource Drilling Inc.		RT/KB/RF: G.L.: 50.0 m	T.D.: 1000 m TVD: 1000 m.
ESTIMATES		TARGET HORIZONS	
Spud Date: Sept 30th, 2004 Days on Location: 15	Well Cost: $600,000	Fischell's Brook	

EVALUATION PROGRAM

Ten-metre sample intervals: If high penetration rates	Conventional cores at:
Five-metre sample intervals: From conductor casing to TD	Logs and Tests: DLL - CN - GR - SP - CAL
Canned sample intervals:	

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program
244	48.07	J55	30	Class "A"
178	25.30	H40	250	Class "G" as per Schlumberger cementing program Sept 14, 2004 JPG
114	14.14	J55	1000	Class "G" as per Schlumberger cementing program Sept 14, 2004
Other Equipment:				
21MPa BOPs, Rotating Head, Annular Preventer				

The undersigned operator's Representative hereby declares that to the best of the Representative's knowledge, the information contained herein and in the attached detailed program is true, accurate and complete.

Signed: ..... Operator's Representative — Vice President

Date: Sept 27/04.

AUTHORIZATION

Whereas the Minister of Natural Resources has jurisdiction under the *Petroleum Drilling Regulations*, ("the Regulations").

In accordance with section 32 of the Regulations, the operator named in the Application is authorized to undertake the proposed well program described above subject to the following conditions:

1. This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their acquisition;
3. The operator shall comply with all conditions of the Drilling Program Approval No. 2004-111e-01 under which the above well is to be drilled;
4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;
5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and
6. The operator shall comply with such other conditions as are appended to this Authorization.

Signed: ..... Director

Effective Date: October 08, 2004

Authority to Drill a Well No. 2004-111e-01-01

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[1] R.S.N. 1990, c. P-10

[2] CNR 1150/96

APPENDIX C: SCHLUMBERGER CEMENT PROPOSALS AND SERVICE REPORTS

Schlumberger

CEMENTING PROPOSAL

for

VULCAN MINERALS INC
Flatbay #2

Attention: Joe Gorman, Pat Laracy

Shawn Berg
Field Service Manager
Atlantic Canada
Office: 709 748-7978
Cell: 709 685-9015

Service District:
Dartmouth, Nova Scotia

Schlumberger

178mm Casing

Well Data	Hole Size:	219mm (8 5/8")
	Casing Size:	178mm (7") - 25.3 kg/m
	Casing Depth:	250m
	Cement Interval:	250m - Surface
	Previous Casing:	244mm (9 5/8") - 43.6 kg/m
	Previous Casing Depth:	40m
	BHST	11°C
	BHCT	25°C
	Casing Volume:	0.0217 m^3/m
	OH Annular Volume:	0.0129 m^3/m
	Csg-Csg Annular Volume	0.0168 m^3/m

Preflush/Spacer	Freshwater		4	m^3
	+ Salt, Granulated	D044	5%	BWOW
	+ Iron Oxide Marker Dye	B880	6.25	kg/m^3 Water

Cement System	Cement, Class G	D907		
	+ CemNet, Fibre Cement Additive	B137	5	kg/m^3 Slurry
	+ Salt, Granulated	D044	5%	BWOW
	+ Antifoam Agent	D046	0.2%	BWOC
	Density		1900	kg/m^3
	Yield		0.78	m^3/tonne
	Base Fluid (Freshwater)		460.13	L/tonne
	CAOH Ann. Vol		2.70	m^3
	CAC Ann. Vol		0.67	m^3
	Annular Volume		3.37	m^3
	Shoe Track		0.28	m^3
	Total Volume		3.66	m^3
	% Excess		100.00	%
	with excess		6.36	m^3

Materials Required	CemNet, Fibre Cement Additive	B137	32	kg
	Iron Oxide Marker Dye	B880	25	kg
	Salt, Granulated	D044	387	kg
	Antifoam Agent	D046	16	kg
	Cement, Class G	D907	8150	kg
	Freshwater		7.7	m^3
	Displacement Fluid		5.1	m^3

178mm Casing Cementing Procedure

1. Ensure casing has 65% standoff with centralizers.
2. Rig up Schlumberger Equipment.
3. Conduct Safety and Procedures meeting with all personnel on location.
4. Pressure test treating lines.
5. Prepare to conduct cement job.
6. Drop bottom plug.
7. Pump required preflush/spacer.
8. Mix and pump cement as per program.
9. Drop top plug.
10. Chain down casing.
11. Displace cement with required volume fluid.
12. Slow pumping and land plug a minimum of 3,500 kPa over the final pumping pressure.
13. Bleed pressure off and ensure that the float is holding.
14. Rig down Schlumberger equipment.

SAFE HANDLING OF CHEMICALS

Chemicals vary greatly in hazardous properties. Some chemicals can be handled safely without any special protective equipment, while others do require such equipment. Of the materials to be used on this treatment, special considerations should be given to the following:

CemNet, Fibre Cement Additive	B137
Iron Oxide Marker Dye	B880
Salt, Granulated	D044
Antifoam Agent	D046
Cement, Class G	D907

For further information regarding safe handling guidelines and potential health hazards, please refer to "A Guide of the Hazardous Properties of Schlumberger Products", a Schlumberger safety publication, and/or to Schlumberger's Material Safety Data Sheets.

STANDARD HOOK-UP

In addition to the safe handling of chemicals, proper procedures for on-location operations must be followed to ensure a safely conducted treatment. Schlumberger's publication "Safety & Loss Prevention Standards 5, 9, 11" provides specific information regarding job planning, hook-up, pressure testing, preparation of fluids, pumping flammable and combustible fluids, emergency shutdown, flowback procedures and other pertinent information.

114mm Casing

Well Data	Hole Size:	165mm (6 1/2")
	Casing Size:	114mm (4 1/2") - 14.14 kg/m
	Casing Depth:	1000m
	Cement Interval:	1000m - Surface
	Previous Casing:	178mm (7") - 25.3 kg/m
	Previous Casing Depth:	250m
	BHST	31°C
	BHCT	25°C
	Casing Volume:	0.0085 m³/m
	OH Annular Volume:	0.0111 m³/m
	Csg-Csg Annular Volume	0.0114 m³/m

Preflush/Spacer	Freshwater		4	m^3
	+ Salt, Granulated	D044	10%	BWOW
	+ Iron Oxide Marker Dye	B880	6.25	kg/m^3 Water

Cement System	RFC-LITE	B810		
	+ Salt, Granulated	D044	10%	BWOW
	+ Antifoam Agent	D046	0.2%	BWOB
	+ UniFLAC-S (Fluid Loss)	D167	0.5%	BWOB
	Density		1500	kg/m^3
	Yield		1.524	m^3/tonne
	Base Fluid (Freshwater)		1162.8	L/tonne
	CAOH Ann. Vol		8.36	m^3
	CAC Ann. Vol		2.85	m^3
	Annular Volume		11.21	m^3
	Shoe Track		0.11	m^3
	Total Volume		11.32	m^3
	% Excess		50.00	%
	with excess		15.50	m^3

Materials Required	RFC-LITE	B810	10171	kg
	Iron Oxide Marker Dye	B880	25	kg
	Salt, Granulated	D044	1583	kg
	Antifoam Agent	D046	20	kg
	UniFLAC-S (Fluid Loss)	D167	51	kg
	Freshwater		15.8	m^3
	Displacement Fluid		8.4	m^3

114mm Casing Cementing Procedure

1. Ensure casing has 65% standoff with centralizers.
2. Rig up Schlumberger Equipment.
3. Conduct Safety and Procedures meeting with all personnel on location.
4. Pressure test treating lines.
5. Prepare to conduct cement job.
6. Drop bottom plug.
7. Pump required preflush/spacer.
8. Mix and pump cement as per program.
9. Drop top plug.
10. Chain down casing.
11. Displace cement with required volume fluid.
12. Slow pumping and land plug a minimum of 3,500 kPa over the final pumping pressure.
13. Bleed pressure off and ensure that the float is holding.
14. Rig down Schlumberger equipment.

SAFE HANDLING OF CHEMICALS

Chemicals vary greatly in hazardous properties. Some chemicals can be handled safely without any special protective equipment, while others do require such equipment. Of the materials to be used on this treatment, special considerations should be given to the following:

RFC-LITE	B810
Iron Oxide Marker Dye	B880
Salt, Granulated	D044
Antifoam Agent	D046
UniFLAC-S (Fluid Loss)	D167

For further information regarding safe handling guidelines and potential health hazards, please refer to "A Guide of the Hazardous Properties of Schlumberger Products", a Schlumberger safety publication, and/or to Schlumberger's Material Safety Data Sheets.

STANDARD HOOK-UP

In addition to the safe handling of chemicals, proper procedures for on-location operations must be followed to ensure a safely conducted treatment. Schlumberger's publication "Safety & Loss Prevention Standards 5, 9, 11" provides specific information regarding job planning, hook-up, pressure testing, preparation of fluids, pumping flammable and combustible fluids, emergency shutdown, flowback procedures and other pertinent information.

Schlumberger

Service Order

2005-Jan-20

Customer	Person Taking Call	Dowell Location	OrderDate	Job Number
VULCAN MINERALS INC.	Clarke, Andrew	Dartmouth, NS	2004-Oct-15	**2203840317**

Well Name and Number	Legal Location	Field	County	State/Province
Flat Bay 1				Newfoundland

Well Master:	API / UWI:
0630581738	

Rig Name	Well Age	Sales Engineer	Job Type
Rose	New	Burgess, Lara	Cem Surface Casing

Time Well Ready:	Deviation	Bit Size	Well MD	Well TVD	BHP	BHST	BHCT
11/1/2004 10:45 AM	°	216 mm	199 m	199 m	kPa	°C	°C

Treat Down	Packer Type	Packer Depth	WellHead Connection	HHP on Location	Max AllowedPressure	Max Allowed AnnPressure
Casing		m	178mm head		10000	

Casing

Depth, m	Size, mm	Weight, kg/m	Grade	Thread
61	244	48.13	H40	8RD
198.5	178	25.33	H40	8RD

Tubing

Depth,	Size, mm	Weight, kg/m	Grade	Thread

Perforated Intervals

Top, m	Bottom, m	spm	No. of Shots	Total Interval
				m
				Diameter
				mm

Services Instructions:

Supply Men, Equipment and Material to Cement 178mm Surface Casing with approx 7 tonnes of Class G + 5 % D044.

Extra Equipment:

Expected On Location: 11/1/2004 10:45 AM **Ready To Pump:** 11/1/2004 11:45 AM

Contact	Voice	Mobile	FAX	Notes
Bill Williams	709 649 4051	709 689 9673		

Notes:

Directions:

Flat Bay road and 4 kms. Rig is on the right next to the road.

Other Notes:

Comments:

Fluid Systems:

Salt					
7020 kg D907 + 5 % BWOW D044 + 0.2 % BWOB D046 +					
Density:	1900	kg/m³	*Thickening Time:*	3.5	
Yield:	0.78	ft³/sk			
H2O Mix:	0.46	m³/ton			
H2O:	3.312	m³	*Eq. Sack Weight:*	0	lb
			Total Blend:	7.2	sacks

Dowell Code	Conc/ Amount		Total Quantity
D046	0.2	% BWOB	14.4
D044	5	% BWOW	165.2688
D907	7020	kg	7020

Schlumberger — Cementing Service Report

Customer	Job Number
VULCAN MINERALS INC.	2203840317

Well	Location (legal)	Schlumberger Location	Job Start
Flat Bay 1		Dartmouth, NS	2004-Nov-01

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
		°	216 mm	199 m	199 m

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
	Newfoundland	kPa	°C	°C	kPa/m

Well Master:	API / UWI:
0630581738	

Rig Name	Drilled For	Service Via
Rose	Oil	

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Vis
Other	1050 kg/m³	50 cp

Service Line	Job Type
Cementing	Cem Surface Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
10000 kPa	kPa	178mm head

Service Instructions

Supply Men, Equipment and Material to Cement 178mm Surface Casing with approx 7 tonnes of Class G + 5 % D044.

Casing/Liner

Depth, m	Size, mm	Weight, kg/m	Grade	Thread
61	244	48.13	H40	8RD
198.5	178	25.33	H40	8RD

Tubing/Drill Pipe

Depth,	Size, mm	Weight, kg/m	Grade	Thread

Perforations/Open Hole

Top, m	Bottom, m	spm	No. of Shots	Total Interval
				m
				Diameter
				mm

Treat Down	Displacement	Packer Type	Packer Depth
Casing	4.1 m³		m

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
m³	4.3 m³	2.7 m³	7 m³

Casing/Tubing Secured ☑ 1 Hole Volume Circulated prior to Cementing ☑

Lift Pressure: kPa

Pipe Rotated ☐ Pipe Reciprocated ☐

No. Centralizers: 5 Top Plugs: 1 Bottom Plugs: 0

Cement Head Type: Single

Job Scheduled For:	Arrived on Location:	Leave Location:
11/1/2004 10:45	2004-Nov-01 10:30	2004-Nov-01 16:00

Casing Tools

Shoe Type:	Float
Shoe Depth:	189.5 m
Stage Tool Type:	
Stage Tool Depth:	m
Collar Type:	
Collar Depth:	m

Squeeze Job

Squeeze Type	
Tool Type:	
Tool Depth:	m
Tail Pipe Size:	m
Tail Pipe Depth:	m
Sqz Total Vol:	m³

Date	Time (24 hr clock)	Treating Pressure kPa	Flow Rate m3/min	Volume m3	CMT DENS kg/m3	0	0	0	Message
2004-Nov-01	12:50	625	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:51	625	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:51	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:51								Safety Meeting
2004-Nov-01	12:51	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:51	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:52	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:52	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:52	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:52	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:53	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:53	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:53	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:54	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:54	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:54	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:55	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:55	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:55	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:56	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:56	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:56	-32	0.00	0.0	982.22	0	0	0	

Well	Field	Service Date	Customer	Job Number
Flat Bay #1		04306-Nov-01	VULCAN MINERALS INC.	2203840317

Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	kPa	m3/min	m3	kg/m3	0	0	0	
2004-Nov-01	12:57	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:57	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:57	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:58	0	0.00	0.0	982.95	0	0	0	
2004-Nov-01	12:58	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	12:58	0	0.00	0.0	981.49	0	0	0	
2004-Nov-01	12:59	0	0.00	0.0	981.49	0	0	0	
2004-Nov-01	12:59	0	0.00	0.0	981.49	0	0	0	
2004-Nov-01	12:59	0	0.00	0.0	981.49	0	0	0	
2004-Nov-01	13:00	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:00	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:00	0	0.00	0.0	981.49	0	0	0	
2004-Nov-01	13:01	0	0.00	0.0	981.49	0	0	0	
2004-Nov-01	13:01	0	0.00	0.0	981.49	0	0	0	
2004-Nov-01	13:01	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:02	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:02	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:02	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:03	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:03	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:03	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:04	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:04	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:04	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:05	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:05	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:05	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:06	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:06	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:06	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:07	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:07	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:07	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:08	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:08	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:08	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:09	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:09	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:09	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:10	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:10	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:10	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:11	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:11	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:11	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:12	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:12	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:12	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:13	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:13	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:13	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:14	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:14	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:14	-32	0.00	0.0	982.22	0	0	0	

Well	Field	Service Date	Customer	Job Number
Flat Bay #1		04306-Nov-01	VULCAN MINERALS INC.	2203840317

Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	kPa	m3/min	m3	kg/m3	0	0	0	
2004-Nov-01	13:15	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:15	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:15	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:16	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:16	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:16	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:17	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:17	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:17	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:18	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:18	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:18	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:19	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:19	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:19	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:20	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:20	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:20	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:21	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:21	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:21	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:22	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:22	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:22	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:23	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:23	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:23	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:24	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:24	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:24	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:25	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:25	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:25	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:26	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:26	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:26	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:27	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:27	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:27	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:28	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:28	0	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:28	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:29								Start Job
2004-Nov-01	13:29	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:29	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:29								Start Pumping Spacer
2004-Nov-01	13:29	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:29	-32	0.00	0.0	982.22	0	0	0	
2004-Nov-01	13:29	0	0.20	0.0	982.22	0	0	0	
2004-Nov-01	13:30	284	0.35	0.1	982.22	0	0	0	
2004-Nov-01	13:30	347	0.43	0.3	982.22	0	0	0	
2004-Nov-01	13:30	347	0.44	0.4	981.49	0	0	0	
2004-Nov-01	13:31	442	0.50	0.6	981.49	0	0	0	
2004-Nov-01	13:31	473	0.53	0.7	980.03	0	0	0	

Well	Field	Service Date	Customer	Job Number
Flat Bay #1		04306-Nov-01	VULCAN MINERALS INC.	2203840317

Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	kPa	m3/min	m3	kg/m3	0	0	0	
2004-Nov-01	13:31	473	0.52	0.9	980.03	0	0	0	
2004-Nov-01	13:32	505	0.53	1.1	980.03	0	0	0	
2004-Nov-01	13:32	505	0.53	1.3	980.03	0	0	0	
2004-Nov-01	13:32	505	0.53	1.4	978.56	0	0	0	
2004-Nov-01	13:33	505	0.52	1.6	979.29	0	0	0	
2004-Nov-01	13:33	505	0.52	1.8	978.56	0	0	0	
2004-Nov-01	13:33	537	0.52	2.0	979.29	0	0	0	
2004-Nov-01	13:34	189	0.00	2.1	977.83	0	0	0	
2004-Nov-01	13:34	126	0.00	2.1	978.56	0	0	0	
2004-Nov-01	13:34								Pressure Test Lines
2004-Nov-01	13:34	126	0.00	2.1	978.56	0	0	0	
2004-Nov-01	13:34								Reset Total, Vol = 2.09 m3
2004-Nov-01	13:34	126	0.00	2.1	978.56	0	0	0	
2004-Nov-01	13:34	126	0.00	0.0	978.56	0	0	0	
2004-Nov-01	13:35	158	0.00	0.0	978.56	0	0	0	
2004-Nov-01	13:35	158	0.00	0.0	978.56	0	0	0	
2004-Nov-01	13:35	8459	0.00	0.0	978.56	0	0	0	
2004-Nov-01	13:36	10542	0.00	0.0	978.56	0	0	0	
2004-Nov-01	13:36	10352	0.00	0.0	978.56	0	0	0	
2004-Nov-01	13:36	1073	0.00	0.0	978.56	0	0	0	
2004-Nov-01	13:37	316	0.00	0.0	979.29	0	0	0	
2004-Nov-01	13:37	158	0.00	0.0	979.29	0	0	0	
2004-Nov-01	13:37	158	0.00	0.0	979.29	0	0	0	
2004-Nov-01	13:38	158	0.00	0.0	980.03	0	0	0	
2004-Nov-01	13:38								Good Test
2004-Nov-01	13:38	158	0.00	0.0	979.29	0	0	0	
2004-Nov-01	13:38	158	0.00	0.0	980.03	0	0	0	
2004-Nov-01	13:38	158	0.00	0.0	980.76	0	0	0	
2004-Nov-01	13:38								Start Mixing Lead Slurry
2004-Nov-01	13:38	158	0.00	0.0	980.76	0	0	0	
2004-Nov-01	13:39	158	0.00	0.0	980.76	0	0	0	
2004-Nov-01	13:39	158	0.00	0.0	980.03	0	0	0	
2004-Nov-01	13:39	126	0.00	0.0	1017.32	0	0	0	
2004-Nov-01	13:40	252	0.00	0.0	867.40	0	0	0	
2004-Nov-01	13:40	189	0.00	0.0	1001.23	0	0	0	
2004-Nov-01	13:40	126	0.00	0.0	1019.52	0	0	0	
2004-Nov-01	13:41	95	0.00	0.0	1022.44	0	0	0	
2004-Nov-01	13:41	95	0.00	0.0	1022.44	0	0	0	
2004-Nov-01	13:41	95	0.00	0.0	1023.18	0	0	0	
2004-Nov-01	13:42	221	0.00	0.0	1167.99	0	0	0	
2004-Nov-01	13:42	252	0.00	0.0	1314.26	0	0	0	
2004-Nov-01	13:42	252	0.00	0.0	1491.25	0	0	0	
2004-Nov-01	13:43	252	0.00	0.0	1683.60	0	0	0	
2004-Nov-01	13:43	158	0.00	0.0	1843.76	0	0	0	
2004-Nov-01	13:43	852	0.66	0.1	1897.89	0	0	0	
2004-Nov-01	13:44	600	0.42	0.2	1892.03	0	0	0	
2004-Nov-01	13:44	221	0.17	0.3	1895.69	0	0	0	
2004-Nov-01	13:44	505	0.42	0.4	1851.08	0	0	0	
2004-Nov-01	13:45	410	0.42	0.5	1903.00	0	0	0	
2004-Nov-01	13:45	410	0.42	0.7	1955.66	0	0	0	
2004-Nov-01	13:45	379	0.42	0.8	1960.05	0	0	0	
2004-Nov-01	13:46	884	0.66	1.0	1946.16	0	0	0	
2004-Nov-01	13:46	852	0.66	1.2	1914.71	0	0	0	
2004-Nov-01	13:46	473	0.42	1.5	1891.30	0	0	0	

Well	Field	Service Date	Customer	Job Number
Flat Bay #1		04306-Nov-01	VULCAN MINERALS INC.	2203840317

Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	kPa	m3/min	m3	kg/m3	0	0	0	
2004-Nov-01	13:47	316	0.42	1.6	1881.80	0	0	0	
2004-Nov-01	13:47	316	0.42	1.7	1878.87	0	0	0	
2004-Nov-01	13:47	347	0.46	1.9	1879.60	0	0	0	
2004-Nov-01	13:48	821	0.66	2.1	1876.68	0	0	0	
2004-Nov-01	13:48	821	0.66	2.3	1878.14	0	0	0	
2004-Nov-01	13:48	316	0.42	2.5	1880.33	0	0	0	
2004-Nov-01	13:49	284	0.42	2.6	1884.72	0	0	0	
2004-Nov-01	13:49	284	0.42	2.8	1907.39	0	0	0	
2004-Nov-01	13:49	284	0.42	2.9	1897.89	0	0	0	
2004-Nov-01	13:50	284	0.42	3.1	1887.65	0	0	0	
2004-Nov-01	13:50	316	0.42	3.2	1884.72	0	0	0	
2004-Nov-01	13:50	284	0.42	3.3	1924.95	0	0	0	
2004-Nov-01	13:51	379	0.42	3.5	1955.66	0	0	0	
2004-Nov-01	13:51	316	0.42	3.6	1947.62	0	0	0	
2004-Nov-01	13:51	316	0.42	3.8	1918.36	0	0	0	
2004-Nov-01	13:52	347	0.42	3.9	1895.69	0	0	0	
2004-Nov-01	13:52	537	0.42	4.0	1899.35	0	0	0	
2004-Nov-01	13:52								End Cement Slurry
2004-Nov-01	13:52	410	0.38	4.1	1735.52	0	0	0	
2004-Nov-01	13:52	0	0.00	4.1	305.71	0	0	0	
2004-Nov-01	13:53								Drop Top Plug
2004-Nov-01	13:53	0	0.00	4.1	305.71	0	0	0	
2004-Nov-01	13:53								Reset Total, Vol = 4.08 m3
2004-Nov-01	13:53	0	0.00	4.1	305.71	0	0	0	
2004-Nov-01	13:53								Approx 1.5m3 Preflush Returned
2004-Nov-01	13:53	0	0.00	0.0	305.71	0	0	0	
2004-Nov-01	13:53	-32	0.00	0.0	305.71	0	0	0	
2004-Nov-01	13:53	-63	0.00	0.0	305.71	0	0	0	
2004-Nov-01	13:53	32	0.00	0.0	1255.75	0	0	0	
2004-Nov-01	13:54	63	0.00	0.0	1261.60	0	0	0	
2004-Nov-01	13:54	-63	0.00	0.0	1289.39	0	0	0	
2004-Nov-01	13:54	95	0.00	0.0	1255.02	0	0	0	
2004-Nov-01	13:55	284	0.46	0.1	1030.49	0	0	0	
2004-Nov-01	13:55	189	0.51	0.3	1027.56	0	0	0	
2004-Nov-01	13:55	158	0.51	0.4	1028.30	0	0	0	
2004-Nov-01	13:56	252	0.58	0.6	1027.56	0	0	0	
2004-Nov-01	13:56	252	0.58	0.8	1027.56	0	0	0	
2004-Nov-01	13:56	252	0.58	1.0	1027.56	0	0	0	
2004-Nov-01	13:57	252	0.58	1.2	1027.56	0	0	0	
2004-Nov-01	13:57	252	0.58	1.4	1027.56	0	0	0	
2004-Nov-01	13:57	252	0.58	1.6	1027.56	0	0	0	
2004-Nov-01	13:58	316	0.58	1.8	1027.56	0	0	0	
2004-Nov-01	13:58	442	0.59	2.0	1027.56	0	0	0	
2004-Nov-01	13:58	568	0.58	2.2	1027.56	0	0	0	
2004-Nov-01	13:59	663	0.58	2.4	1023.18	0	0	0	
2004-Nov-01	13:59	757	0.58	2.6	1023.18	0	0	0	
2004-Nov-01	13:59	884	0.58	2.8	1023.18	0	0	0	
2004-Nov-01	14:00	1010	0.58	2.9	1023.18	0	0	0	
2004-Nov-01	14:00	1168	0.58	3.1	1023.18	0	0	0	
2004-Nov-01	14:00	1326	0.58	3.3	1023.18	0	0	0	
2004-Nov-01	14:01	1515	0.58	3.5	1023.18	0	0	0	
2004-Nov-01	14:01	1262	0.28	3.7	1023.18	0	0	0	
2004-Nov-01	14:02	1357	0.30	3.8	1023.91	0	0	0	

Well	Field	Service Date	Customer	Job Number
Flat Bay #1		04306-Nov-01	VULCAN MINERALS INC.	2203840317

Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	kPa	m3/min	m3	kg/m3	0	0	0	
2004-Nov-01	14:02	1483	0.29	3.9	1023.91	0	0	0	
2004-Nov-01	14:02	7606	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:03	7543	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:03	7480	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:03	7449	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:04	7449	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:04	7449	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:04	7417	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:05	7417	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:05	473	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:05	1105	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:06	1105	0.00	3.9	1023.91	0	0	0	
2004-Nov-01	14:06	1231	0.27	4.0	1023.91	0	0	0	
2004-Nov-01	14:06	1420	0.26	4.0	1023.91	0	0	0	
2004-Nov-01	14:06	1483	0.26	4.1	1024.64	0	0	0	
2004-Nov-01	14:06								Rebump
2004-Nov-01	14:07	6596	0.00	4.1	1023.91	0	0	0	
2004-Nov-01	14:07								Floats Not Holding
2004-Nov-01	14:07	6596	0.00	4.1	1023.91	0	0	0	
2004-Nov-01	14:07								Reset Total, Vol = 4.09 m3
2004-Nov-01	14:07	6565	0.00	4.1	1024.64	0	0	0	
2004-Nov-01	14:07	6502	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:07	6470	0.00	0.0	1024.64	0	0	0	
2004-Nov-01	14:08	6439	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:08	6439	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:08	6407	0.00	0.0	1024.64	0	0	0	
2004-Nov-01	14:09	6407	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:09	6407	0.00	0.0	1024.64	0	0	0	
2004-Nov-01	14:09	6407	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:10	6407	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:10	6407	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:10	6407	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:11	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:11	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:11	6407	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:12	6407	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:12	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:12	6344	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:13	6407	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:13	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:13	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:14	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:14	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:14	6344	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:15	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:15	6344	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:15	6344	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:16	6375	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:16	6344	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:16	4292	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:17	1736	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:17	1736	0.00	0.0	1023.91	0	0	0	
2004-Nov-01	14:17								Differential On Casing
2004-Nov-01	14:17	1736	0.00	0.0	1023.91	0	0	0	

Well	Field	Service Date	Customer	Job Number
Flat Bay #1		04306-Nov-01	VULCAN MINERALS INC.	2203840317

Date	Time (24 hr clock)	Treating Pressure (kPa)	Flow Rate (m3/min)	Volume (m3)	CMT DENS (kg/m3)	0	0	0	Message
2004-Nov-01	14:17	1673	0.00	0.0	1023.91	0	0	0	
2004-Nov-04	9:42								

Post Job Summary

Average Pump Rates, m³/m

Slurry	N2	Mud	Maximum Rate
0.66			0.66

Volume of Fluid Injected, m³

Total Slurry	Mud	Spacer	N2
4		2	

Treating Pressure Summary, kPa

Maximum	Final	Average	Bump Plug to	Breakdown
6800		2500	6800	

Breakdown Fluid

Volume	Density
m³	1050 kg/m³

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp
%	3.9 m³	4.1 m³	15 °C

☐ Cement Circulated to Surface? Volume m³

☐ Washed Thru Perfs To m

Customer or Authorized Representative	Schlumberger Supervisor
Williams, Bill	Kevin Law

☐ CirculationLost ☑ Job Completed

Schlumberger *Service Quality Evaluation*

Cementing

Client:	VULCAN MINERALS INC.	**Service Order #:**	2203840317 SQE #: 1
Field:		**Date:**	2004-Nov-01
Rig:	Rose	**Operating Time:**	1.00 hrs.
Well:	Flat Bay 1	**Client Rep:**	Williams, Bill
Service Line:	Cementing	**Schlumberger Engineer:**	Kevin Law
Job Type:	Cem Surface Casing	**Schlumberger FSM:**	Burgess, Lara

Main Objective*: **Cement 178mm Surface Casing.**

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score	*Yes / No*	*Result*
1	**HSE**			
1a	Free of lost time injury and full compliance with SLB and location specific HSE practice.	5	☑ Yes ☐ No	5
1b	Free of environmental spill or non-compliant discharge.	5	☑ Yes ☐ No	5
			Sub-total	100%
2	**Design / Preparation**			
2a	Program including job simulation (CemCADE) and pumping schedule / tool hydraulic calculations and fishing diagrams	3	☑ Yes ☐ No	3
2b	Equipment maintenance schedule completed / Green Tagged.	2	☑ Yes ☐ No	2
2c	All materials and equipment required for job / contingency checked and on location.	2	☑ Yes ☐ No	2
2d	Safety / pre-job meeting conducted with all involved present.	2	☑ Yes ☐ No	2
			Sub-total	100%
3	**Execution**			
3a	Lost time < 30mins.	3	☑ Yes ☐ No	3
3b	Equipment pressure tested successfully.	3	☑ Yes ☐ No	3
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density).	2	☑ Yes ☐ No	2
3d	Plugs / darts released and tested successfully.	2	☑ Yes ☐ No	2
3e	Density variation met expectations.	2	☑ Yes ☐ No	2
3f	Personnel performed as per expectations.	2	☑ Yes ☐ No	2
3g	Equipment performed as per expectations	2	☑ Yes ☐ No	2
			Sub-total	100%
4	**Evaluation**			
4a	Main job objective achieved with no consequential non productive time.	10	☑ Yes ☐ No	10
			Sub-total	100%

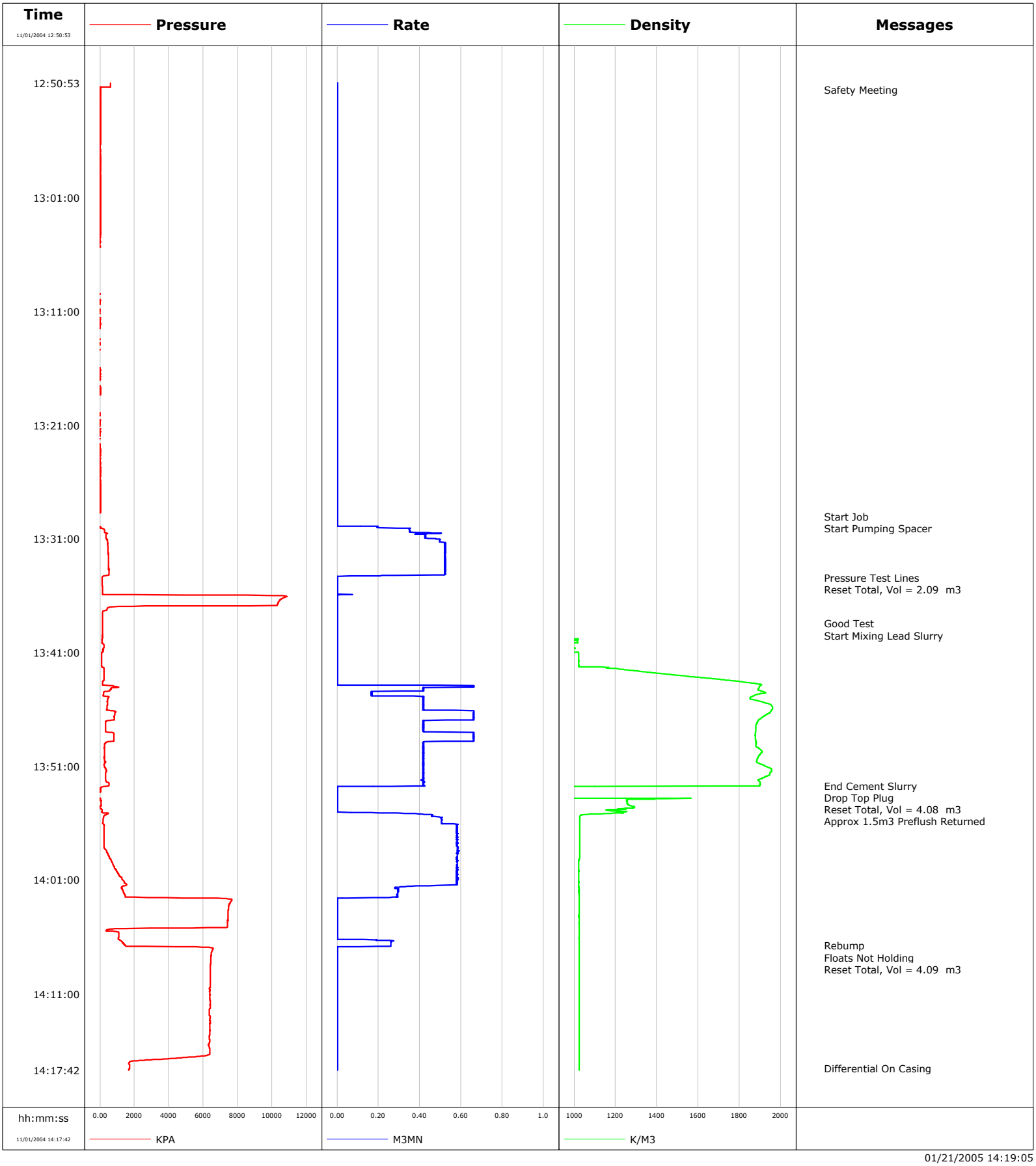
Total 100%

Comments: (Please include a brief explanation for a "NO" response and summarise any innovations attempted on this well.)

Client:	**Schlumberger:**
	Job went well with no Safety or operational problems. Thanks Kevin Law
Client Signature:	**Schlumberger Signature:**

Schlumberger Cementing Job Report

Well	Flatbay 2 - Cem Surface Casing	**Client**	Vulcan
Field		**SIR No.**	2203840317
Engineer	Kevin Law	**Job Type**	Surface Casing
Country	Canada	**Job Date**	11-01-2004



APPENDIX D: WELL TERMINATION RECORD & WELL SCHEMATIC

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Natural Resources, **Energy Branch**

WELL TERMINATION RECORD

WELL DATA

Well Name: Vulcan Minerals Inc.-Flat Bay No.2A Operator: Vulcan Minerals Inc.	CO-ORDINATES	
Drilling Rig: Rig Type: Ingersoll Rand RD 10 Drilling Contractor: Rose Resource Drilling	Long: Lat:	UTM (NAD 27) (21) Northing: ~~5 359 965~~ 5359965.033 Easting: 386 691 386 708.97
	ELEVATION	DEPTH
	~~RT/KB~~/RF: ~~95.8m~~ G.L.: ~~56.15m~~ 93.0 (Corr)	TD: 175 mRF TVD: 175 mRF
	FOR NR USE ONLY	
Spud Date: Oct 8 2004 TD Date: Oct 20 2004 Rig Release Date: Oct 23 2004 Well Termination Date: Oct 26 2004	For the purpose of interpreting subsection 154(5) of the Petroleum Drilling Regulations, the rig release date is deemed to be: October 23rd, 2004	

CASING AND CEMENTING PROGRAM

O.D. (mm)	WEIGHT (kg/m)	GRADE	SETTING DEPTH (m)	CEMENTING DETAILS
244	48.07	J55	46.9	3m³ Class A 1820 kg/m³. Cement returns

PLUGGING PROGRAM

Approval of the following program was obtained by (person) Patrick Laracy
from (person) Wes Foote of the Department of Natural Resources by means of email dated Oct 22 '04

Type of Plug	Interval	Felt/Pressure Tested	Cement and Additives
Cement	45mRF-Surf	Visible	2m³ Class A

Lost Circulation/Overpressure Zones: Lost circulation at 155 and 175 mRF

Downhole Completion/Suspension Equipment:

Cement plug only (see sketch)

(Describe and Attach Sketch)

DECLARATION

The undersigned operator's Representative hereby declares that on the basis of personal knowledge of operations undertaken at the above named well, the above information is true, accurate and complete.

Signed [signature] Title [signature] Operator's Representative
Name PATRICK LARACY Date Dec 15/04.

ACKNOWLEDGEMENT

Acknowledged by [signature] Director Date Dec 20 03

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Natural Resources, **Energy Branch**

WELL TERMINATION RECORD

WELL DATA

Well Name: Vulcan Minerals Inc. - Flat Bay No. 2 Operator: Vulcan Minerals Inc.	CO-ORDINATES		
Drilling Rig:	Long: Lat:	UTM (NAD 27) Northing: ~~5 359 965~~ 5 359963.88 Easting: ~~386 684~~ 386 697.34	
Rig Type: Ingersoll Rand RD 10 Drilling Contractor: Rose Resource Drilling	ELEVATION ~~RT/KB~~/RF: ~~93.8~~ 57.25 G.L.: 55.95m ~~93.2m~~	DEPTH TD: 845.0 TVD: 845.0	
Spud Date: Oct 23 2004 TD Date: Nov 20 2004 Rig Release Date: Nov 25 2004 Well Termination Date: Nov 25 2004	FOR NR USE ONLY For the purpose of interpreting subsection 154(5) of the Petroleum Drilling Regulations, the rig release date is deemed to be: November 25th, 2004		

CASING AND CEMENTING PROGRAM

O.D. (mm)	WEIGHT (kg/m)	GRADE	SETTING DEPTH (m)	CEMENTING DETAILS
244.5	48.07	J 55	1	1m³ preflush. 2.85 m³ Class 'A'. Returns
177.8	25.30	H40	196.5	2m³ preflush. 4.0 m³ class 'G'. 1.5 m³ preflush returns

PLUGGING PROGRAM

Approval of the following program was obtained by (person) Joseph Gorman of the Department of Natural Resources by means of email from (person) Wes Foote dated Nov 25 2004

Type of Plug	Interval	Felt/Pressure Tested	Cement and Additives
Cement	184 - 214 mRF	No.	1m³ Class 'A' 1824 kg/m³
Cement	21 - 38 mRF	No.	0.4m³ Class 'A' 1824 kg/m³

Lost Circulation/Overpressure Zones: NONE

Downhole Completion/Suspension Equipment:

2 cement plugs - see attached sketch

(Describe and Attach Sketch)

DECLARATION

The undersigned operator's Representative hereby declares that on the basis of personal knowledge of operations undertaken at the above named well, the above information is true, accurate and complete.

Signed [signature] Title President Operator's Representative

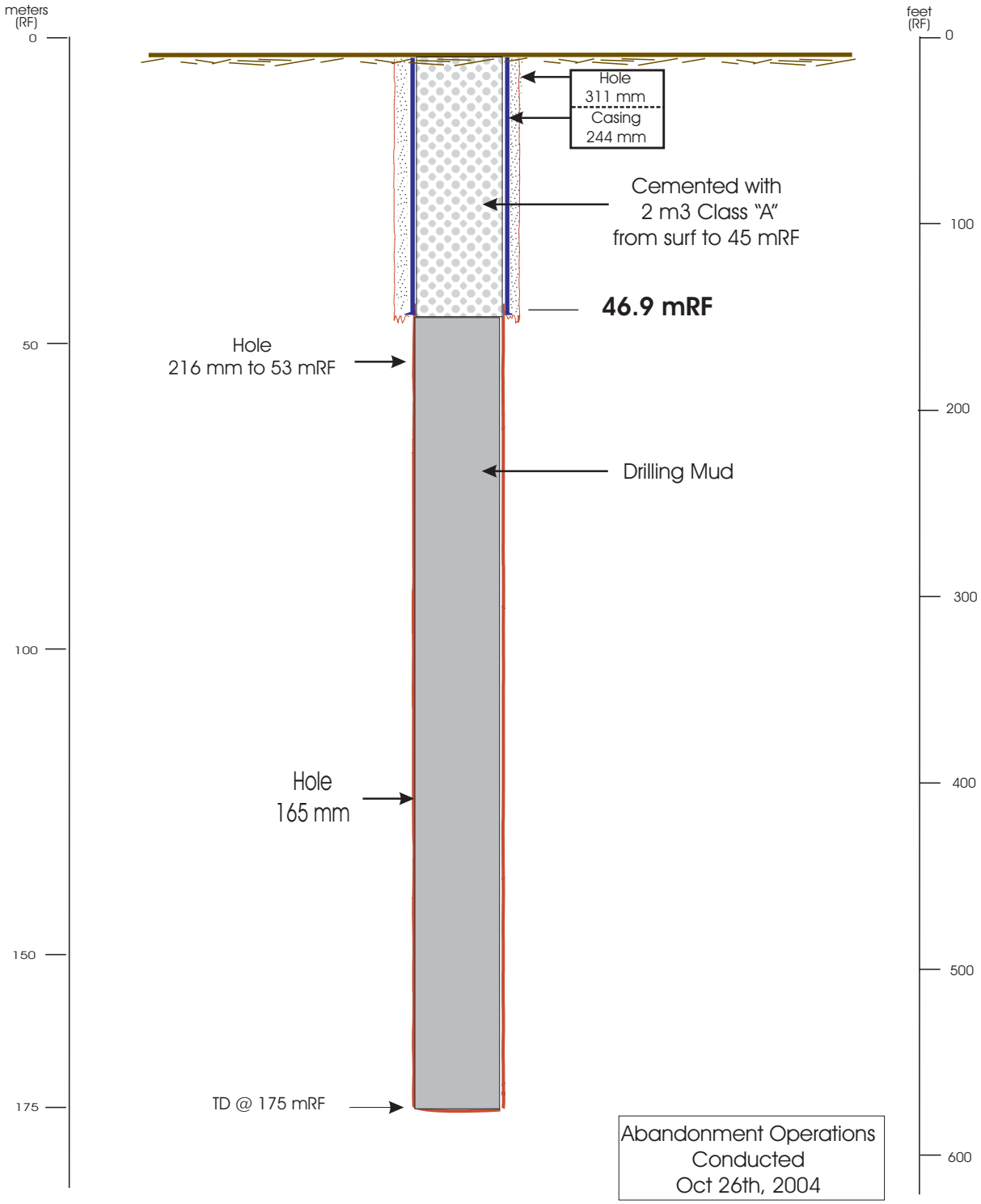
Name Patrick Laracy Date Dec 15/04

ACKNOWLEDGEMENT

Acknowledged by [signature] Director Date 2005 02 03

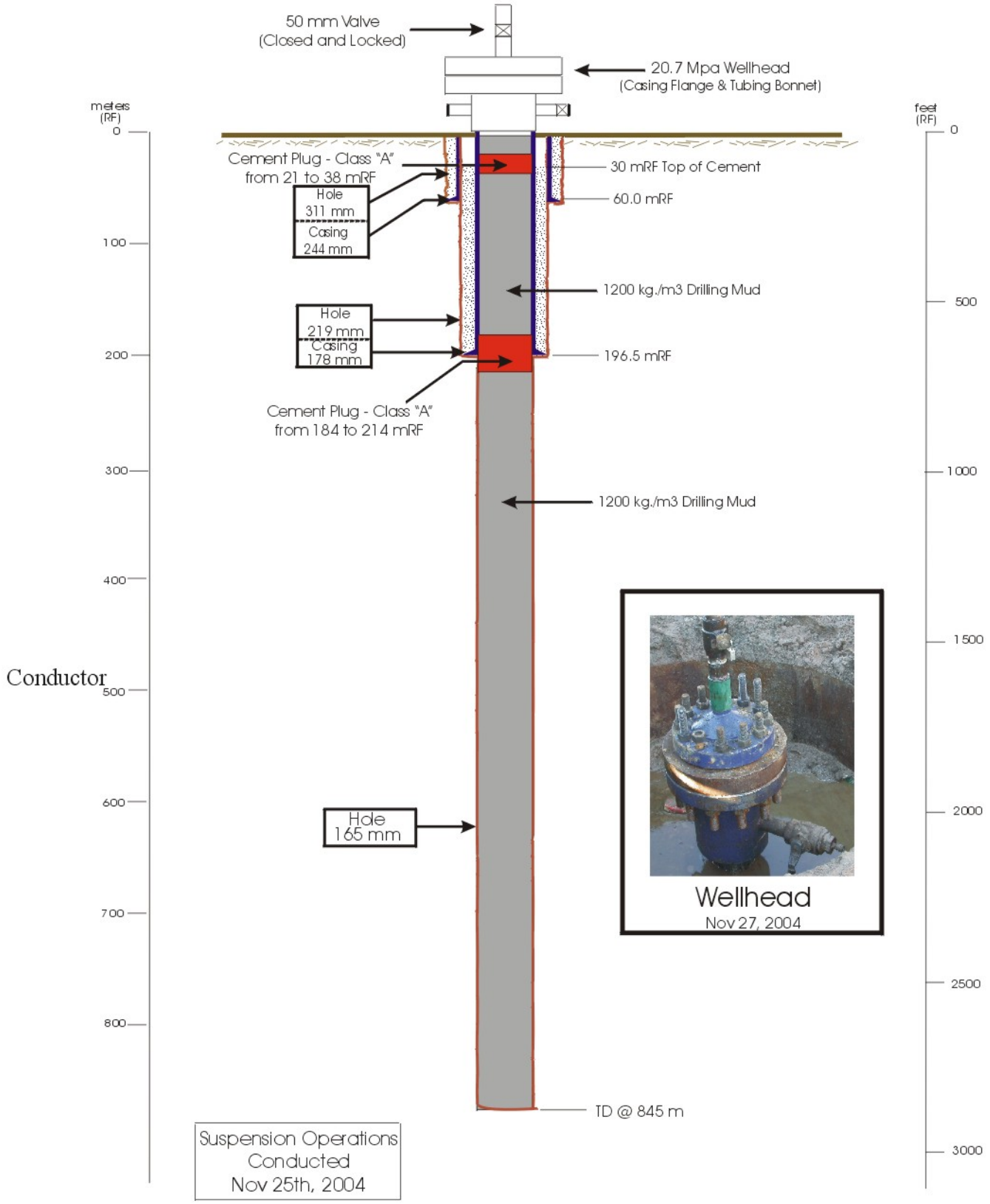
(Revised March 2004) WTR1150.wpd

Flat Bay #2A
Well Profile
Abandonment



Vulcan Minerals Inc.
Flat Bay No. 2A
Abandonment Configuration

Scale:	1 : N/A
Drawn by:	J. Gorman
Date:	2004 -11-30
Drawing No:	FB2A - ABAN - 1
Rev:	0



VULCAN minerals inc

Vulcan Minerals Inc.
Flat Bay No. 2
Susppension Configuration

Scale:	1 : N/A
Drawn by:	J. Gorman
Date:	2004 -12-13
Drawing No:	FB2 - SUSP - 001
Rev:	1

APPENDIX E: COMPOSITE WELL RECORD & TIME VERSUS DEPTH CURVE

Well Flat Bay #2, November 2004

Position: projection NAD 27: 386697.341-mE, 5359963.881-mN, GL + 55.5-m, RF = + 2.8-mGL

All depths are MD RF

Depth	Lithology Description	Lithology Column	Geo Physics	Casing Scheme	Drilling Data: Deviation:	Drilling Data: Bit:	Drilling Data: BHA:	Drilling Data: Comments:	DF & Cementing: Drilling Fluid:	DF & Cementing: Cement:	DF & Cementing: Comments:	Remarks
0-20m 0	Claystone			244.5-mm 48.13-kg/m @ 60-m 177.8-mm 25.33-kg/m H-40 8Rd Short @ 196.5-m		**#1. 2.8 to 9.2-m** 311-mm Insert Tooth Tricone; meterage: 6.4-m; ROP: 2.1-m/h **#2. 9.2 to 61.5-m** 216-mm Mill Tooth Tricone; meterage: 52.3-m; ROP: 5.2-m/h	Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m	* Reamed with 311-mm insert tricone bit from 9.2 to 61.5-m * Make check trip to 61.5-m before POOH after reaming	**Type:** Gel water	One stage cement job. Pump 1-m^3 H^2O preflush. Pump 2.85-m^3 Class A 15.2-ppg cement slurry. Displace with 1.7-m^3 H^2O.	* Made wiper trip to 61.5-m before running casing . * Rotate while cementing 20 rpm * 30% open hole excess * Cement returns at cellar * TOC at 43-m	
50												
100	Claystone with gypsum					**#3. 61.5-m to 164.0-m** 216-mm Air Insert; meterage: 92.5-m; ROP: 8.4-m/h	Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m		**Type:** Air	One stage cement job. Pump 2-m^3 water preflush.Pump 4.08-m^3 1900 kg/m3 class G cement (6-kg/Lcm fiber + 23-kg antifoam + 230-kg salt). Displaced with 4-m^3 water.	* Cementation by Schlumberger WS * 75% open hole excess * Wiper plug bumped with 6600-kpa * 1.5-m^3 preflush returns to surface * Rebumped plug as floats did not hold *1673-kPa pressure differential on casing * Wiper plug found at 189-m	
150	Gypsum with sandstone and claystone				0.5° @ 160-m Totco	**#4. 164.0-m to 198.7-m** 216-mm Security Tricone; meterage: 44.7-m; ROP: 5.6-m/h	Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m	* Filled hole with mud at 154.0-m * No loss circulation zone	**Type:** Water with natural clay and soda ash Vis 60; pH 11; MW 1000-kg/m^3			
200	Salt				0.5° @ 198.7-m Totco	**#5. 198.7-m to 420.0-m** 165-mm Drillmaster Air Insert; meterage: 221.3-m; ROP: 36.9-m/h. Pulled Condition: Broken		* FIT @ 200-m with 1100-kg/m^3 MW to 1400-kpa, stabilized at 1035-kpa.	**Type:** Air	Cement Plug at depth of 214-m. Pump 2-m^3 water preflush, 1-m^3 Class A cement 15.2-ppg, 0.4-m^3 water, and spot cement plug 214-m to 184-m. Cement Plug at depth of 35-m. Pump 0.2-m^3 water, 0.4-m^3 class A cement, and 0.15-m^3 water, spotting plug 38-m to 21-m.		Open Hole Logging Run by SLB Wireline HRLA: 845 to 196.5-m CNL: 845 to 196.5-m DSI: 845 to 196.5-m MCFL: 845 to 196.5-m TLD: 845 to 196.5-m 1-arm Caliper: 845 to 196.5-m
250												
300	Salt with anhydrite				0.0° @ 300-m Totco							
350	Salt											
400						**#6. 420.0-m to 638.0-m** 165-mm Mission Air Insert; meterage: 218-m; ROP: 31.1-m/h						
450	Salt with anhydrite				0.0° @ 460-m Totco							
500	Salt Anhydrite											
550												
600	Anhydrite with salt Anhydrite				0.0° @ 610-m Totco							
650	Anhydrite with limestone and claystone					**#7. 638.0-m to 823.0-m** 165-mm Smith F3; meterage: 185-m; ROP: 4.1-m/h			**Type:** Brine MW 1120-kg/m^3			
700	Anhydrite with limestone				1.5° @ 740.0-m Totco							Drill Stem Test by Holland Testors Set packer @ 730-m. Recorder #1 @ 722.3-m and Recorder #2 @ 734.8-m. Results show lack of pressure build up indicating no flow of oil, gas, or water.
750	Light grey conglomerate							* Circulation broke every 125-m while running in with new bit to 793-m. Reamed from 793-m to 823-m for one hour prior to drilling.				
800			12.85°C			**#8. 823.0-m to 845.6-m** 165-mm Smith F3; meterage: 22.4-m; ROP: 1.5-m/h			MW 1200-kg/m3			
850												

20-650-m: Lower Codroy Group

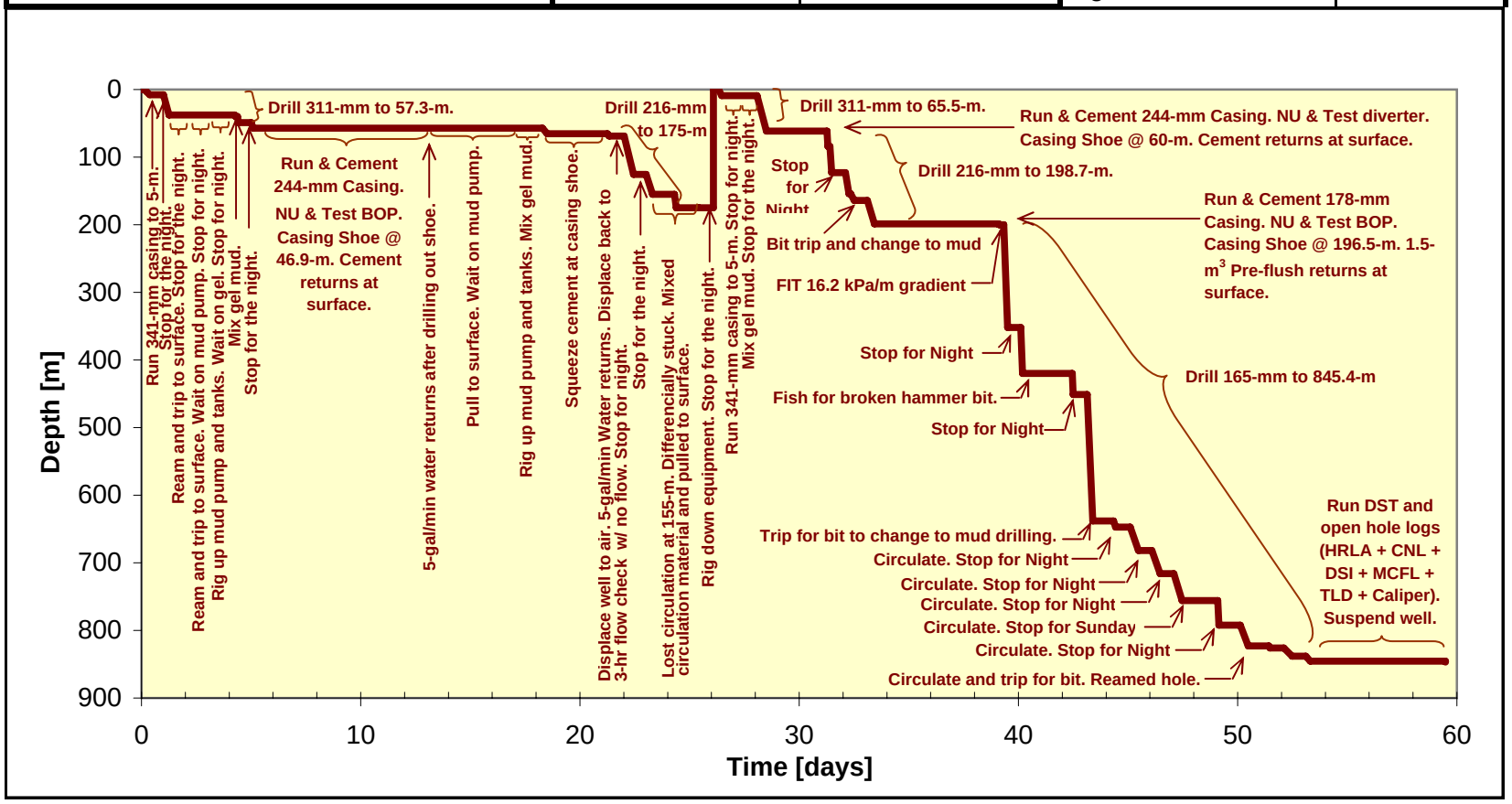
650-738-m: Ship Cove

738-845-m: Spout Falls / Fishell's Brook

REMARKS: Licence 03-106 | Spud Date: Oct 23, 2004 @ 11:30 | Rig Release: Nov 25, 2004 @ 17:00

Rig: Rose Resource Drilling Inc. RD-10 | Total Operational Hours: 284.5 | Percentage Operational NPT: 8.3%

	Operating Company	Vulcan Minerals Inc.	**Spud Date #2a**	27-Sep-04
	Well Name	Flat Bay #2a & #2	**Rig Release #2a**	22-Oct-04
	Rig	RD-10	**Spud Date #2**	23-Oct-04
	Field	Western Newfoundland	**Rig Release #2**	25-Nov-04



Final Version

Please note that the crew was working approximately six days per week at 8 hours per day.

APPENDIX F: DRILL CUTTINGS DESCRIPTION & LITHOLOGY

GEOLOGICAL REPORT

on

VULCAN MINERALS FLAT BAY # 2

in
Western Newfoundland

for
VULCAN MINERALS INC.

Prepared For: Patrick Laracy
Prepared By: Corey Fitzgerald

Corey Fitzgerald
Geologist Name

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WELL SUMMARY

WELL NAME:	Vulcan Minerals Flat Bay # 2			
OPERATOR:	Vulcan Minerals Inc.			
PROVINCE:	Newfoundland			
AREA:	Flat Bay, Western Newfoundland			
DRILLING CONTRACTOR	Rose Drilling			
WELL LICENCE NUMBER	03-106			
WELLSITE SUPERVISION	**Geologist:**	Corey Fitzgerald		
	Drilling Supervisor:	Bill Williams		
ELEVATIONS:	**Ground Level:**	97.0 meters	**Kelly Bushing:**	99.8 meters
SPUD DATE:	24-10-2004			
T.D. DATE:	19-11-2004			
SAMPLE INTERVAL:	120.0 – 845.4 meters			
WELL STATUS:	Suspended.			

CASING SUMMARY

String #	**Casing Size** (mm)	**Hole Size** (mm)	**Joints** (#)	**Landed At** (m)
1	178.0	229.0	22	196.0

FORMATION TOPS

Kelly Bushing: *99.8 m*

Formation	Prognosis (m)	Sample Top (m)	Log Tops (m)
Lower Codroy Group	20.0	N/A	N/A
Ship Cove Formation	658.0	655.0	650.0
Spout Falls Formation (Fischells Brook Member)	678.0	740.0	738.0
Spout Falls Formation	878.0	N/A	N/A
Granite	920.0	N/A	N/A

FORMATION EVALUATIONS

Formation:	Ship Cove Limestone		
Age:			
Sample Top:	655.0 meters	**Log Top:**	650.0 meters
Thickness:	N/A		
Evaluation:	The Ship Cove limestone is described in sample as light gray, light cream gray, microcrystalline with occasional fine crystalline grains. The limestone is firm to occasional soft, massive, argillaceous, with trace red and green clay, with common interbeds of anhydrite, tight, and exhibits an oil odour when acid added. There is an occasional white yellow fluorescence, and a slow very faint white fluorescence cut. This fluorescence is barely visible and determination of pervasiveness was not obvious.		
Conclusion:	Formation looks tight with no indication of hydrocarbons on wireline logs. Poor reservoir potential.		

Formation:	Fischells Brook		
Age:			
Sample Top:	740.0 meters	**Log Top:**	738.0 meters
Thickness:	N/A		
Evaluation:	The Fischells Brook is described as a light gray cream to pinkish conglomerate with a lower fine to lower coarse grained matrix, angular to lesser sub rounded quartz grains, friable, with calcareous and lesser siliceous cement. The conglomerate is kaolinitic, poorly sorted, containing common clear and translucent to clouded siliceous fragments, common aqua green glauconitic grains, occasional pink to orange feldspar, common cream with trace pink blocky calcareous fragments, common light to dark gray dolomitic fragments, occasional clear and translucent to white blocky anhydrite fragments, occasional varicolored chert fragments, with possible fair intergranular porosity, and no shows.		
Conclusion:	The Fischells Brook formation contains from poor to fair intergranular porosity with no indication of hydrocarbons on wirline logs. Poor reservoir potential.		

DETAILED SAMPLE DESCRIPTIONS

Depth (meters) K.B. 99.8 meters

120-125 CLAYSTONE(100%): predominantly red, minor gray cream and gray green, trace silty, very soft, hemititic, calcareous and dolomitic cement, minor calcareous and dolomitic grains, trace anhydrite / gypsum grains.

125-130 CLAYSTONE(100%): predominantly red, minor gray cream and gray green, trace silty, soft, hemititic, calcareous and dolomitic, minor calcareous and dolomitic grains, minor clear and translucent blocky anhydrite grains, minor soft white gypsum grains.

130-135 CLAYSTONE(85%): predominantly red, minor gray cream and gray green, slightly silty, soft, hemititic, calcareous and dolomitic, minor calcareous and dolomitic grains.

GYPSUM(15%): white, very soft, massive, minor crystalline, possible stringers, possible clear and translucent slightly firm, blocky anhydrite.

135-140 CLAYSTONE(80%): predominantly red, minor gray cream and gray green, slightly silty, soft, hemititic, calcareous and dolomitic, minor calcareous and dolomitic grains.

GYPSUM(20%): white, very soft, massive, earthy to minor crystalline, occasional clear and translucent slightly firm, blocky anhydrite / gypsum fragments.

140-145 CLAYSTONE(80%): predominantly red brown, slightly silty, soft, hemititic, calcareous and dolomitic, minor calcareous and dolomitic grains.

GYPSUM(20%): white to translucent, very soft, earthy, becoming increasingly crystalline, flaky, possible minor anhydrite, tabular in part.

145-150 GYPSUM(55%): clear and translucent to white, very soft, crystalline to occasional earthy, flaky, possible minor anhydrite, blocky to tabular.

CLAYSTONE(45%): predominantly red brown, slightly silty, soft, hemititic, calcareous and dolomitic matrix well minor calcareous and dolomitic grains.

150-155 GYPSUM(80%): cream clear to white, very soft, 50% crystalline to 50% earthy, flaky, common cream clear firm blocky anhydrite, occasional dolomite rhomb.

CLAYSTONE(20%): predominantly red brown, slightly silty, soft, hemititic, calcareous and dolomitic matrix well minor calcareous and dolomitic grains.

155-160 SANDSTONE(80%): predominantly red brown, lithic, upper very fine to lower very coarse grained, common red brown calcareous clay matrix as above, poorly sorted, angular to occasional sub rounded, friable, common dark green, yellow, brown and black siliceous mafic well minor felsic grains upper to 3 mm, minor rhombic dolomitic grains, possible fair intergranular porosity, no shows.

GYPSUM(20%): clear to white, very soft, crystalline to earthy, flaky, 10 to 15% clear to pink blocky to tabular anhydrite grains.

160-165 SANDSTONE(80%): clear to red brown, lithic, upper very fine to lower very coarse grained, upper to 15% red brown calcareous clay matrix, poorly sorted, 10% sub angular to sub rounded quartz grains, friable, common dark green, yellow, brown and black siliceous mafic well minor felsic grains upper to 3 mm, occasional varicolored chert, minor rhombic dolomitic grains, possible fair intergranular porosity, no shows.

GYPSUM(20%): clear to white, very soft, crystalline to earthy, flaky, mixed well clear blocky to tabular anhydrite grains.

165-170 SANDSTONE(80%): clear to red brown, lithic, upper very fine to lower very coarse grained, upper to 10% red brown calcareous clay matrix, poorly sorted, 15% sub rounded to rounded quartz grains, friable, common dark green, yellow, brown and black siliceous mafic well minor felsic grains upper to 3 mm, occasional sand rounded to angular varicolored chert, minor dolomitic grains, trace muscovite, possible fair intergranular porosity, no shows.

GYPSUM(20%): clear to white, very soft, crystalline to earthy, flaky, mixed well clear to pink blocky to tabular anhydrite grains.

170-175 CLAYSTONE(50%): predominantly red, minor gray green, slightly silty, soft, very sandy in part, possible clayey sandstone as above, hemititic, calcareous and dolomitic.

GYPSUM(50%): clear to white, occasional dark green, very soft, earthy, minor crystalline, mixed well clear blocky to tabular anhydrite.

175-180 GYPSUM(75%): white, minor dark crystalline gypsum, very soft, earthy to flaky crystalline, mixed with common red and blocky clear to cloudy anhydrite ` fragments.

CLAYSTONE(25%): predominantly red brown, soft, silty, hemititic, calcareous to slightly dolomitic, minor dolomite rhomb and grains, trace sand, trace varicolored chert, trace mafic grains.

180-185 GYPSUM(60%): white, minor dark crystalline gypsum, very soft, earthy to flaky crystalline, mixed with common rounded and blocky clear to cloudy anhydrite grains and fragments.

CLAYSTONE(40%): predominantly red brown, soft, silty, hemititic, calcareous to slightly dolomitic, occasional dolomite rhomb and grains, trace sand, minor varicolored chert, minor mafic grains.

185-190 GYPSUM(60%): white, minor dark crystalline gypsum, very soft, earthy to minor crystalline, common crystalline rounded and blocky anhydrite grains and fragments.

CLAYSTONE(40%): red brown, minor gray green and gray brown, soft, silty, hemititic, weakly calcareous, slightly dolomitic, occasional dolomite rhomb and grains, minor sand, possible clayey sandstone, trace varicolored chert, occasional light and dark siliceous grains.

190-198.5 CLAYSTONE(45%): red brown, minor gray green and gray brown, soft, silty, hemititic, weakly calcareous, slightly dolomitic, occasional dolomite rhomb and grains, trace sand, occasional light and dark siliceous grains.

GYPSUM(55%): white, very soft, earthy to minor crystalline, occasional crystalline blocky anhydrite.

200-205 SALT(100%): clear to translucent, minor cream white, crystalline to massive, blocky, powdery, calcareous in part, slightly dolomitic, minor white gypsum.

205-215 SALT(100%): clear to translucent, minor white cream, crystalline to massive, blocky, slightly hard, calcareous in part, slightly dolomitic, minor soft white gypsum fragments.

215-225 SALT(100%): clear to translucent, minor white cream, crystalline to massive, blocky, slightly hard, calcareous in part, weakly dolomitic, minor soft white gypsum fragments.

225-235 SALT(100%): clear to translucent, trace white cream, coarse crystalline, massive, blocky, firm, calcareous in part, slightly dolomitic, minor soft white gypsum fragments.

235-245 SALT(100%): clear to translucent, trace white cream, coarse crystalline, massive, blocky, firm, calcareous in part, slightly dolomitic, minor soft white gypsum fragments.

245-255 SALT(100%): clear to translucent, trace white cream, coarse crystalline, massive, blocky, firm, calcareous in part, slightly dolomitic, minor soft white gypsum fragments, occasional tan dolomitic / anhydrite grains, trace dark possible shale.

255-265 SALT(100%): clear to translucent, trace white cream, coarse crystalline, massive, blocky, firm, weakly calcareous, slightly dolomitic, trace soft white gypsum fragments, trace tan dolomitic / anhydrite grains, trace dark shale.

265-275 SALT(100%): clear to translucent, coarse crystalline, massive, blocky, firm, calcareous in part, slightly dolomitic, trace soft white gypsum fragments, rare dark shale.

275-285 SALT(100%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, slightly dolomitic, trace soft white gypsum fragments, rare dark shale.

285-295 SALT(100%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, trace dolomitic grains.

295-300 SALT(100%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, trace dolomitic grains, occasional red brown claystone possible stringer.

300-305 SALT(75%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, trace dolomitic grains, occasional red brown claystone possible stringer.

ANHYDRITE(15%): light blue gray to white gray, hard, blocky, crystalline, massive.

CLAYSTONE(10%): red brown, minor gray green, soft, silty, possible stringer.

305-310 ANHYDRITE(95%): light blue gray, hard, blocky, crystalline, massive.

SALT(5%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, trace dolomitic grains.

310-315 ANHYDRITE(100%): light blue gray, hard, blocky, crystalline, massive, dolomitic in part, trace salt.

315-320 ANHYDRITE(100%): light blue gray, hard, blocky, crystalline, massive, slightly dolomitic, frosted, rare salt.

320-325 SALT(60%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, trace dolomitic grains.

ANHYDRITE(40%): light blue gray to white gray, hard, blocky, crystalline, massive, slightly dolomitic, frosted.

325-330 SALT(80%): clear to translucent, coarse crystalline, massive, blocky, firm, calcareous in part, trace dolomitic grains.

ANHYDRITE(20%): light blue gray to white gray, trace tan, hard, blocky, crystalline, massive, slightly dolomitic, frosted.

330-335 SALT(100%): clear to translucent, coarse crystalline, massive, blocky, firm, calcareous in part, trace dolomitic grains, occasional anhydrite grains.

335-340 SALT(100%): clear to translucent, coarse crystalline, massive, blocky, firm, calcareous in part, trace dolomitic grains, minor anhydrite grains, minor black very carbonaceous grains.

340-350 SALT(100%): clear to translucent, rare tan, coarse crystalline, massive, blocky, firm, calcareous in part, minor anhydrite grains.

350-355 SALT(100%): clear to translucent, rare tan, fine to coarse crystalline, massive, blocky, firm, calcareous in part.

355-360 SALT(100%): clear to translucent, rare tan, fine to coarse crystalline, massive, blocky, firm, calcareous in part, minor anhydrite grains.

360-370 SALT(100%): clear to translucent, rare tan, fine to coarse crystalline, massive, blocky, firm, calcareous in part, trace anhydrite grains.

370-380 SALT(100%): clear to translucent, rare tan, coarse crystalline, massive, blocky, firm, calcareous in part, weakly dolomitic, trace anhydrite grains.

380-390 SALT(100%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, weakly dolomitic, trace to minor anhydrite grains.

390-395 SALT(100%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, weakly dolomitic.

395-400 SALT(100%): clear to translucent, trace tan, fine to coarse crystalline, massive, blocky, firm, calcareous in part, weakly dolomitic.

400-405 SALT(100%): clear to translucent, trace tan, coarse crystalline, massive, blocky, firm, calcareous in part, weakly dolomitic.

405-410 SALT(100%): clear to translucent, minor tan, coarse crystalline, massive, blocky, firm, calcareous in part, weakly dolomitic, rare dark carbonaceous fragments.

410-420 SALT(100%): clear to translucent, minor tan, coarse crystalline, massive, blocky, firm, calcareous in part, weakly dolomitic, rare dark carbonaceous fragments.

420-425 SALT(100%): light brown, clear to translucent, fine to coarse crystalline, massive, blocky, firm, calcareous. SAMPLE APPEARS OIL STAINED, NO FLORESCENCE OR CUT AND NO GAS READINGS. *First sample after fishing and retrieving bit.*

425-430 SALT(100%): light brown, clear to translucent, fine to coarse crystalline, massive, blocky, firm, calcareous, occasional crystalline anhydrite / gypsum. SAMPLE APPEARS STAINED, NO FLORESCENCE OR CUT AND NO GAS READINGS.

430-435 SALT(100%): clear to translucent, trace tan, trace dark carbonaceous shale, coarse crystalline, massive, blocky, firm, slightly calcareous.

435-440 SALT(100%): clear to translucent, trace tan, trace dark carbonaceous shale, coarse crystalline, massive, blocky, firm, slightly calcareous.

440-445 SALT(100%): clear to translucent, trace light brown, trace dark carbonaceous shale, coarse crystalline, massive, blocky, firm, slightly calcareous.

445-450 SALT(100%): clear to translucent, trace to minor light brown possible staining, trace dark carbonaceous shale, coarse crystalline, massive, blocky, firm, slightly calcareous, < 5% light gray anhydrite, no shows.

450-455 ANHYDRITE(90%): light blue gray, light gray, fine crystalline, blocky, firm, massive, occasional tan calcareous blebs.

SALT(10%): clear to translucent, trace light brown, coarse crystalline, massive, blocky, firm, slightly calcareous.

455-460 ANHYDRITE(75%): light blue gray, light white gray, fine crystalline, blocky, soft to firm, massive, occasional tan calcareous blebs, frosted.

SALT(25%): clear to translucent, coarse crystalline, massive, blocky, slightly calcareous.

460-465 SALT(60%): clear to translucent, coarse crystalline, massive, blocky, slightly calcareous.

ANHYDRITE(40%): light blue gray, light white gray, occasional tan, fine crystalline, blocky, soft to firm, massive, occasional tan calcareous blebs, frosted.

465-470 SALT(80%): clear to translucent, coarse crystalline, massive, blocky, slightly calcareous.

ANHYDRITE(20%): light blue gray, light white gray, occasional tan, fine crystalline, blocky, soft to firm, frosted, massive, minor tan calcareous blebs.

470-475 SALT(90%): clear to translucent, coarse crystalline, massive, blocky, slightly calcareous.

ANHYDRITE(10%): light white gray, minor tan, fine crystalline, blocky, soft to firm, frosted, massive, minor tan calcareous blebs.

475-480 SALT(100%): clear to translucent, coarse crystalline, massive, blocky, slightly calcareous, minor anhydrite grains as above.

480-485 SALT(100%): clear to translucent, coarse crystalline, massive, blocky, slightly calcareous, minor tan calcareous grains, minor anhydrite.

485-490 SALT(100%): clear to translucent, coarse crystalline, massive, blocky, slightly calcareous, minor tan calcareous grains, minor anhydrite.

490-495 SALT(50%): clear to translucent, coarse crystalline, massive, blocky, slightly calcareous, minor tan calcareous grains.

ANHYDRITE(50%): light blue gray, light white gray, occasional tan, fine crystalline, blocky, firm, frosted, massive, minor tan calcareous / dolomitic blebs.

495-500 ANHYDRITE(100%): light blue gray, light white gray, lesser tan, fine crystalline, blocky, firm, frosted, massive, common tan calcareous / dolomitic blebs.

500-510 ANHYDRITE(100%): light blue gray, light white gray, lesser tan, fine crystalline, blocky, firm, frosted, massive, occasional tan calcareous / dolomitic blebs.

510-520 ANHYDRITE(100%): light blue gray, light white gray, tan, fine crystalline, blocky, firm, frosted, sucrosic, massive, occasional calcareous / dolomitic blebs.

520-530 ANHYDRITE(100%): light blue gray, light white gray, tan, fine crystalline, blocky, firm, frosted, sucrosic, fibrous in part, massive, occasional calcareous / dolomitic blebs.

530-540 ANHYDRITE(100%): light blue gray, light white gray, tan, fine crystalline, blocky, firm, frosted, sucrosic, fibrous in part, massive, occasional calcareous / dolomitic blebs.

540-550 ANHYDRITE(100%): light white gray, clear, occasional tan, fine crystalline, blocky, firm, frosted, sucrosic, fibrous in part, massive, occasional calcareous and dolomitic blebs.

550-560 ANHYDRITE(100%): light white gray, light blue gray, clear, minor tan, fine crystalline, blocky, firm, frosted, sucrosic, fibrous in part, massive, occasional calcareous and dolomitic blebs.

560-570 ANHYDRITE(100%): light white gray, light blue gray, clear, minor tan, fine crystalline, blocky, firm, frosted, sucrosic, fibrous in part, massive, occasional calcareous and dolomitic blebs.

570-580 ANHYDRITE(100%): light white gray, light blue gray, clear, occasional tan, fine crystalline, blocky, firm, frosted, sucrosic, massive, occasional calcareous and dolomitic blebs.

580-590 ANHYDRITE(100%): light white gray, light blue gray, increasing gray brown, fine crystalline, blocky, firm, frosted, massive, powdery, occasional calcareous and dolomitic blebs.

590-595 ANHYDRITE(50%): light white gray, light blue gray, gray brown, fine crystalline, blocky, firm, frosted, massive, occasional calcareous and dolomitic blebs.

SALT(50%): clear to translucent, blocky, coarse crystalline.

595-600 SALT(80%): clear to translucent, blocky, coarse crystalline.

ANHYDRITE(20%): light white gray, light blue gray, gray brown, fine crystalline, blocky, firm, frosted, massive, occasional calcareous and dolomitic blebs.

600-605 SALT(95%): clear to translucent, blocky, coarse crystalline, massive, calcareous.

ANHYDRITE(5%): light white gray, light blue gray, gray brown, fine crystalline, blocky, firm, frosted, fibrous, massive, calcareous and dolomitic blebs.

605-610 SALT(85%): clear to translucent, blocky, coarse crystalline, firm, massive, calcareous.

ANHYDRITE(15%): light white gray, light blue gray, gray brown, fine crystalline, blocky, firm, frosted, fibrous, massive, calcareous and dolomitic blebs.

610-615 ANHYDRITE(70%): light white gray, gray brown, light blue gray, fine crystalline, blocky, firm, frosted, massive, calcareous and dolomitic fragments.

SALT(30%): clear to translucent, blocky, coarse crystalline, firm, massive, calcareous.

615-620 ANHYDRITE(95%): light white gray, gray brown, light blue gray, fine crystalline, blocky, firm, frosted, massive, calcareous and dolomitic fragments.

SALT(5%): clear to translucent, blocky, coarse crystalline, firm, massive, calcareous.

620-625 ANHYDRITE(100%): light white gray, gray brown, light blue gray, fine crystalline, blocky, firm, frosted, massive, calcareous and dolomitic fragments, minor salt.

625-638 ANHYDRITE(100%): light white gray, gray brown, light blue gray, fine crystalline, blocky, firm, frosted, massive, calcareous and dolomitic fragments.

638-645 ANHYDRITE(75%): white, clear and translucent, fine to coarse crystalline, frosted, firm to soft, fibrous in part, common white to tan fine crystalline calcareous grains.

CLAY(25%): light gray, salt and pepper, soft, weakly calcareous, slightly limonitic.

645-650 ANHYDRITE(70%): white, clear and translucent, fine to coarse crystalline, frosted, firm to soft, fibrous in part, common white to tan fine crystalline calcareous grains.

CLAY(30%): light gray, salt and pepper, soft, weakly calcareous, slightly limonitic.

650-655 CLAYSTONE(60%): light gray, salt and pepper, soft, weakly calcareous, trace red clay, slightly limonitic.

ANHYDRITE(40%): white, clear and translucent, fine to coarse crystalline, frosted, firm to soft, fibrous in part, abundant white to tan fine crystalline calcareous grains.

655-660 LIMESTONE(20%): light gray, light cream gray, microcrystalline well occasional fine crystalline grains, firm to occasional soft, massive, argillaceous, tight, no shows.

CLAYSTONE(30%): light gray, salt and pepper, soft, silty, possible clayey siltstone, weakly calcareous, trace red clay, slightly limonitic.

ANHYDRITE(50%): white, clear and translucent, fine to coarse crystalline, frosted, firm to soft, fibrous in part, abundant, black, soft, magnetic, rusty looking material, possible off pipe.

660-665 ANHYDRITE(50%): white, occasional clear and translucent, fine crystalline, frosted, firm to soft, fibrous in part.

LIMESTONE(40%): light gray, light cream gray, microcrystalline well occasional fine crystalline grains, firm to occasional soft, massive, argillaceous, trace red and green clay, tight, oil odour when acid added, occasional white yellow fluorescence, slow very faint white fluorescence cut.

CLAYSTONE(10%): light gray, salt and pepper, soft, silty, possible clayey siltstone, weakly calcareous, trace red clay, slightly limonitic.

665-670 ANHYDRITE(50%): white, occasional clear and translucent, fine crystalline, frosted, firm to soft, fibrous in part.

LIMESTONE(50%): light gray, light cream gray, microcrystalline well occasional fine crystalline grains, firm to occasional soft, massive, argillaceous, trace claystone as above, trace red and green clay, tight, oil odour when acid added, occasional white yellow fluorescence, slow very faint white fluorescence cut.

670-675 LIMESTONE(60%): light gray, light cream gray, microcrystalline, firm to occasional soft, massive, argillaceous in part, trace red and green clay, tight, oil odour when acid added, occasional white yellow fluorescence, slow very faint white fluorescence cut.

ANHYDRITE(40%): white, occasional clear and translucent, fine crystalline, frosted, firm to soft, fibrous in part.

675-680 ANHYDRITE(55%): white to clear, sucrosic, microcrystalline to fine crystalline, sheety in part, occasional blocky, firm.

LIMESTONE(35%): white, cream, lesser gray green, microcrystalline, very argillaceous in part, somewhat brittle, firm in part, tight, oil odour when acid added, slow very faint white fluorescence cut.

CLAYSTONE(10%): light gray, salt and pepper, soft, silty, possible clayey siltstone, weakly calcareous, trace red clay, slightly limonitic.

680-685 ANHYDRITE(55%): white to clear, sucrosic, microcrystalline to fine crystalline, blocky, firm.

LIMESTONE(45%): white, cream, occasional gray green, microcrystalline, very argillaceous in part, brittle to soft, rare glauconite, tight, weak oil odour when acid added, very faint white fluorescence cut.

685-690 LIMESTONE(45%): gray, light gray cream, microcrystalline, argillaceous, massive, trace fine disseminated pyrite, minor gray green grains, slightly dolomitic, possible oolitic structures within limestone, laminated in part, tight, faint oil odour when acid added, extremely faint white fluorescence cut.

ANHYDRITE(55%): white, occasional clear grains within white matrix, coarse crystalline, sheety in places, soft to occasional firm.

690-695 LIMESTONE(45%): gray, light gray cream, microcrystalline, argillaceous, massive, minor fine disseminated pyrite, minor gray green grains, possible oolitic structures within limestone, laminated in part, tight, no shows.

ANHYDRITE(55%): white, occasional clear grains within white matrix, coarse crystalline, sheety in places, soft to occasional firm.

695-700 LIMESTONE(50%): cream, minor white and gray, microcrystalline, trace pyrite, minor red and dark shale, massive, possible interbeds of anhydrite, oil odour when acid added, tight, no shows.

ANHYDRITE(50%): white to clear, sucrosic, fine crystalline, sheety in part, occasional blocky, firm.

700-705 LIMESTONE(45%): cream, minor white and gray, microcrystalline, trace pyrite, minor red and dark shale, massive, possible interbeds of anhydrite, oil odour when acid added, tight, very faint to n fluorescence cut.

ANHYDRITE(55%): white to clear, light gray, massive, sucrosic, microcrystalline to fine crystalline, blocky to minor sheety, firm.

705-710 ANHYDRITE(65%): white to clear, light gray, massive, sucrosic, microcrystalline to fine crystalline, blocky to minor, firm.

LIMESTONE(35%): cream, minor white and gray, microcrystalline, massive, oil odour when acid added, tight, possible very faint white fluorescence cut.

710-715 ANHYDRITE(75%): white, light gray, fine crystalline, abundant calcareous cement, massive, firm, blocky in part.

LIMESTONE(25%): cream to gray, minor white, microcrystalline, massive, powdery, oil odour when acid added, possible occurring as cement within ANHYDRITE, tight, possible very faint white fluorescence cut.

715-725 ANHYDRITE(75%): white, light gray, fine crystalline, either a very calcareous anhydrite or a very anhydritic limestone, massive, firm, blocky in part.

LIMESTONE(25%): cream to gray, minor white, microcrystalline, weakly dolomitic, rare pyrite, massive, powdery, oil odour when acid added, possible occurring as cement within ANHYDRITE, tight, very faint white fluorescence cut.

725-730 ANHYDRITE(75%): white, light gray, cream, fine crystalline, abundant cream calcareous cement?, either a very calcareous anhydrite or a very anhydritic limestone, massive, firm, blocky in part.

LIMESTONE(25%): cream to minor gray and white, microcrystalline, weakly dolomitic, rare pyrite, massive, powdery, oil odour when acid added, possible occurring as cement within ANHYDRITE, tight, no shows.

730-735 LIMESTONE(65%): gray brown, occasional light gray, very argillaceous, blocky, microcrystalline, firm, massive, dense, tight, strong oil odour when acid added, trace slow blooming milky white fluorescence cut.

ANHYDRITE(35%): light gray, white, massive, fine crystalline to microcrystalline, calcareous cement, firm, tight.

735-740 LIMESTONE(80%): gray brown, occasional light gray, very argillaceous, blocky, microcrystalline, carbonaceous in part, minor aqua green grains, trace silty, rare pyrite, firm, massive, dense, tight, strong oil odour when acid added, trace slow blooming milky white fluorescence cut.

ANHYDRITE(20%): light gray, white, massive, fine crystalline to microcrystalline, calcareous cement, firm, tight.

740-745 CONGLOMERATE(100%): light gray green, light gray, occasional pinkish, predominantly very fine to lower medium quartz grains, minor coarse grained, angular to occasional sub rounded, trace rounded, friable, calcareous and minor siliceous cement, possible kaolinitic, poorly sorted, occasional quartz overgrowths, 10% clouded to minor clear to translucent siliceous grains, common aqua green glauconitic grains, common pink to orange feldspar, common cream to gray blocky calcareous grains, possible fair intergranular porosity, no shows.

745-750 CONGLOMERATE(100%): light gray cream, lower fine to lower coarse grains, angular to lesser sub rounded, friable, calcareous and lesser siliceous cement, kaolinitic, poorly sorted, common clear and translucent to clouded siliceous fragments and cement, common aqua green glauconitic grains, occasional pink to orange feldspar, common cream trace pink blocky calcareous fragments, common light to dark gray dolomitic fragments, common light gray blocky dolomitic grains, occasional clear and translucent to white blocky anhydrite? fragments, occasional varicolored chert fragments, possible fair intergranular porosity, no shows.

750-755 CONGLOMERATE(100%): light gray green, light gray, occasional pinkish, 30% very fine to possible coarse quartz grains, angular to minor sub rounded, friable, calcareous cement, possible siliceous cement, minor kaolinite, poorly sorted, common clear to clouded siliceous grains and fragments, common green glauconitic grains, occasional feldspar, common cream trace pink blocky calcareous grains / fragments, common light and dark gray dolomitic fragments, occasional clear to frosted anhydrite fragments, possible fair intergranular porosity, no shows.

755-760 CONGLOMERATE(100%): light gray to gray, 25 to 30% very fine to minor upper coarse quartz grains, occasional angular to minor sub rounded quartz grains, poorly sorted, abundant white calcareous cement, minor quartz overgrowths, slightly kaolinitic, common dolomitic fragments, common green grains, common feldspar grains / fragments, common gray brown and lesser pink limestone fragments, limonitic, occasional clear blocky anhydrite grains?, possible fair intergranular porosity, slightly oil odour when acid added, no shows.

760-765 CONGLOMERATE(100%): light gray to gray, 25 to 30% very fine to minor upper coarse quartz grains, angular to lesser sub rounded quartz grains, poorly sorted, calcareous cement, occasional quartz overgrowths, dolomitic, common glauconitic grains, occasional feldspar grains, common gray brown and lesser pink rare oolitic limestone fragments, occasional clear blocky anhydrite grains?, limonitic in part, possible fair intergranular porosity, slightly oil odour when acid added, no shows.

765-770 CONGLOMERATE(100%): light gray, 30% silty to upper medium grains, sub angular to lesser sub rounded quartz grains, poorly sorted, calcareous cement, possible minor siliceous cement, friable, kaolinitic in part, common dolomitic fragments, glauconitic, occasional feldspar grains, common gray brown and lesser pink limestone fragments, limonitic in part, tight to possible fair intergranular porosity, no shows.

770-775 CONGLOMERATE(100%): light gray, 30% silty to upper medium quartz grains, sub angular to lesser sub rounded quartz grains, poorly sorted, calcareous and lesser siliceous cement, friable, kaolinitic in part, common dolomitic fragments, glauconitic, increasing feldspar grains, common gray brown and lesser pink limestone fragments, limonitic in part, minor anhydrite, tight to possible fair intergranular porosity, no shows.

775-780 CONGLOMERATE(100%): light gray, 25% silty to upper medium quartz grains, with abundant dolomitic and calcareous fragments, sub angular to lesser sub rounded quartz grains, poorly sorted, calcareous cement, possible minor siliceous cement, occasional anhydrite, friable, kaolinitic in part, glauconitic, occasional feldspar grains, limonitic in part, tight to possible fair intergranular porosity, no shows.

780-785 CONGLOMERATE(100%): light gray cream, 20% silty to lower coarse grained quartz matrix, with abundant dolomitic and calcareous fragments, sub angular to lesser sub rounded quartz grains, poorly sorted, increasing calcareous cement, possible minor siliceous cement, friable, kaolinite, common anhydritic material, glauconitic, occasional feldspar grains, limonitic in part, tight to possible fair intergranular porosity, no shows.

785-790 CONGLOMERATE(100%): light gray, slightly pinkish, 35% very silty to medium grained quartz matrix, angular to occasional sub rounded, calcareous and minor kaolinitic cement, friable, occasional green glauconitic fragments, occasional pink feldspar, occasional varicolored siliceous fragments, common light gray brown limestone, common dolomitic fragments, hemititic in part, minor anhydrite, tight to possible fair intergranular porosity, no shows.

790-795 CONGLOMERATE(100%): light gray cream, pinkish in part, 25% very fine to lower coarse grained sand matrix, poorly sorted, angular to occasional sub rounded, increasing

calcareous and lesser kaolinitic cement, minor siliceous cement, hemititic in part, occasional dark platy ferruginous fragments, occasional varicolored chert fragments, common dolomitic and calcareous fragments, occasional glauconitic grains, feldspathic, tight to possible fine intergranular porosity, no shows.

795-800 CONGLOMERATE(100%): light gray cream, pinkish in part, 40% predominantly very fine to fine lesser medium grained sand matrix, poorly sorted, angular to occasional sub rounded, calcareous and lesser kaolinitic cement, minor siliceous cement, hemititic in part, occasional varicolored chert fragments, common dolomitic and calcareous fragments, occasional glauconitic grains, feldspathic, tight to possible fine intergranular porosity, no shows.

800-805 CONGLOMERATE(100%): light gray cream, 30 to 40% predominantly very fine to fine grained sand matrix, minor fine to lower coarse sand, silty, poorly sorted, angular to occasional sub rounded, calcareous and lesser kaolinitic cement, minor siliceous cement, hemititic in part, occasional varicolored chert fragments, common dolomitic and calcareous fragments, occasional glauconitic grains, feldspathic, tight to possible fine intergranular porosity, no shows.

805-810 CONGLOMERATE(100%): light gray cream, pinkish in part, 15 to 20% fine to medium grained sand matrix, poorly sorted, angular to occasional sub rounded, calcareous and minor kaolinitic cement, possible minor siliceous cement, hemititic in part, increasing varicolored chert fragments, common dolomitic and calcareous fragments, occasional gypsum?, occasional glauconitic grains, feldspathic, tight to possible fine intergranular porosity, no shows.

810-815 CONGLOMERATE(100%): light gray cream to slightly pinkish, 15 to 20% silty to medium grained sand matrix, poorly sorted, angular to occasional sub rounded, calcareous and minor kaolinitic cement, possible minor siliceous cement, increasing hemititic, occasional varicolored chert fragments, common dolomitic and calcareous fragments, occasional glauconitic grains, increasing feldspathic, occasional gypsum, tight to possible fine intergranular porosity, no shows.

815-820 CONGLOMERATE(100%): light gray cream to increasing pinkish / hemititic, 25 to 30% very fine to lower coarse grained sand matrix, possible red clay matrix (water turns reddish when sample is being washed), poorly sorted, angular to occasional sub rounded, hard, calcareous and lesser siliceous cement, minor kaolinite, very feldspathic, minor anhydrite, common varicolored chert fragments, common black flaky material (strong attraction to magnet), occasional dolomitic and calcareous fragments, occasional glauconitic grains, occasional gypsum, tight to possible fine intergranular porosity, no shows.

820-825 CONGLOMERATE(70%): light red to cream, 35 to 40% predominantly very fine to medium lesser lower coarse grained quartz grains, silty, common pink feldspar grains, red clay matrix, decreasing calcareous cement, minor kaolinite, common quartz overgrowths, hard, hemititic, poorly sorted, angular to occasional sub rounded, common varicolored chert fragments, common black platy material (possible hemitite), decreasing dolomitic and limestone fragments, tight to possible fair intergranular porosity, no shows.

ANHYDRITE(20%): white to light gray and cream, minor clear, microcrystalline to occasional cryptocrystalline, frosted, slightly calcareous, platy to blocky, rare vuggy porosity, predominantly tight, no shows.

SILTSTONE / CLAYSTONE(10%): white to light gray, salt and pepper, firm, dense, slightly calcareous, limonitic.

825-830 CONGLOMERATE(65%): As above, light red to cream, 10 to 15% medium to lesser lower coarse grained quartz grains, common pink feldspar grains, red clay matrix, decreasing calcareous cement, hard, hemititic, minor glauconite, poorly sorted, tight to possible fair intergranular porosity, no shows.

ANHYDRITE(30%): white to light gray, microcrystalline to occasional cryptocrystalline, frosted, slightly calcareous, platy to blocky.

SILTSTONE / CLAYSTONE(15%): white to light gray, salt and pepper, firm, dense, slightly calcareous, limonitic.

830-840 CONGLOMERATE(85%): light red brown, 10 to 15% medium to lower very coarse quartz grains, common pink feldspar grains, abundant red clay matrix, calcareous cement, minor kaolinite, increasingly hemititic, poorly sorted, angular to occasional rounded, abundant varicolored siliceous fragments, increasingly siliceous, 5% black flaky material (possible hemitite), minor glauconite, slightly dolomitic, common white to pink limestone fragments, occasional to common quartz overgrowths, tight to assumed fair intergranular porosity, no shows.

ANHYDRITE(15%): white, light gray, frosted, microcrystalline to lesser cryptocrystalline, slightly calcareous.

840-845.5 CONGLOMERATE(80%): light red brown, 10% medium to lower very coarse quartz grains, abundant pink feldspar grains, abundant red clay matrix, calcareous cement, minor kaolinite, very hemititic, poorly sorted, angular to sub rounded, abundant varicolored siliceous fragments, hard, common black flaky material (possible hemitite), minor glauconite, slightly dolomitic, occasional white to pink limestone, occasional to common quartz overgrowths, tight to assumed fair intergranular porosity, no shows.

ANHYDRITE(20%): white, light gray, frosted, microcrystalline to minor cryptocrystalline, platy, slightly calcareous.

TOTAL DEPTH: 845.4 meters

LITHOLOGY STRIP LOG
WellSight Systems Inc.
Scale 1:240 (5"=100') Metric

Well Name:	**Vulcan Minerals FLAT BAY # 2**		
Location:	**Flat Bay, Western Newfoundland**		
Licence Number:	**03-106**	**Region:**	**Newfoundland**
Spud Date:	**Oct. 24th, 2004**	**Drilling Completed:**	**Nov. 19th, 2004**
Surface Coordinates:	**Northing: 5,359,990.**		
	Easting: 386,675.		
Bottom Hole Coordinates:	**Northing: 5,359,990.**		
	Easting: 386,675.		
Ground Elevation (m):	**97.0**	**K.B. Elevation (m):**	**99.8**
Logged Interval (m):	**125.0 To:845.4**	**Total Depth (m):**	**845.4**
Formation:	**Fischells Brook**		
Type of Drilling Fluid:	**Brine**		

Printed by WellSight Log Viewer from WellSight Systems Inc. 1-800-447-1534 www.wellsight.com

OPERATOR

Company: **Rose Resource Drilling Inc.** **Rig: RD10**
Address: **Ontario**

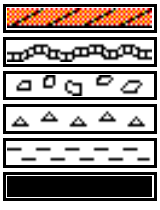
GEOLOGIST

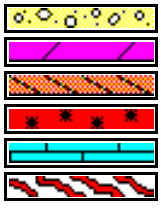
Name: **Corey Fitzgerald**
Company:
Address: **12 Guy Street, Box 244,**
Jersey Side, NL.,
A0B 2G0

Casing

22 joints of H-40, 178.04 mm, 25.30 kg/m, landed at 196.0 meters.

ROCK TYPES


Anhy
Bent
Brec
Cht
Clyst
Coal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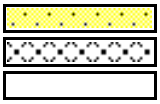
Dol
Gyp
Igne
Lmst
Meta


Mrlst
Salt
Shale
Shcol
Shgy
Sltst


Ss
Till
Blank

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

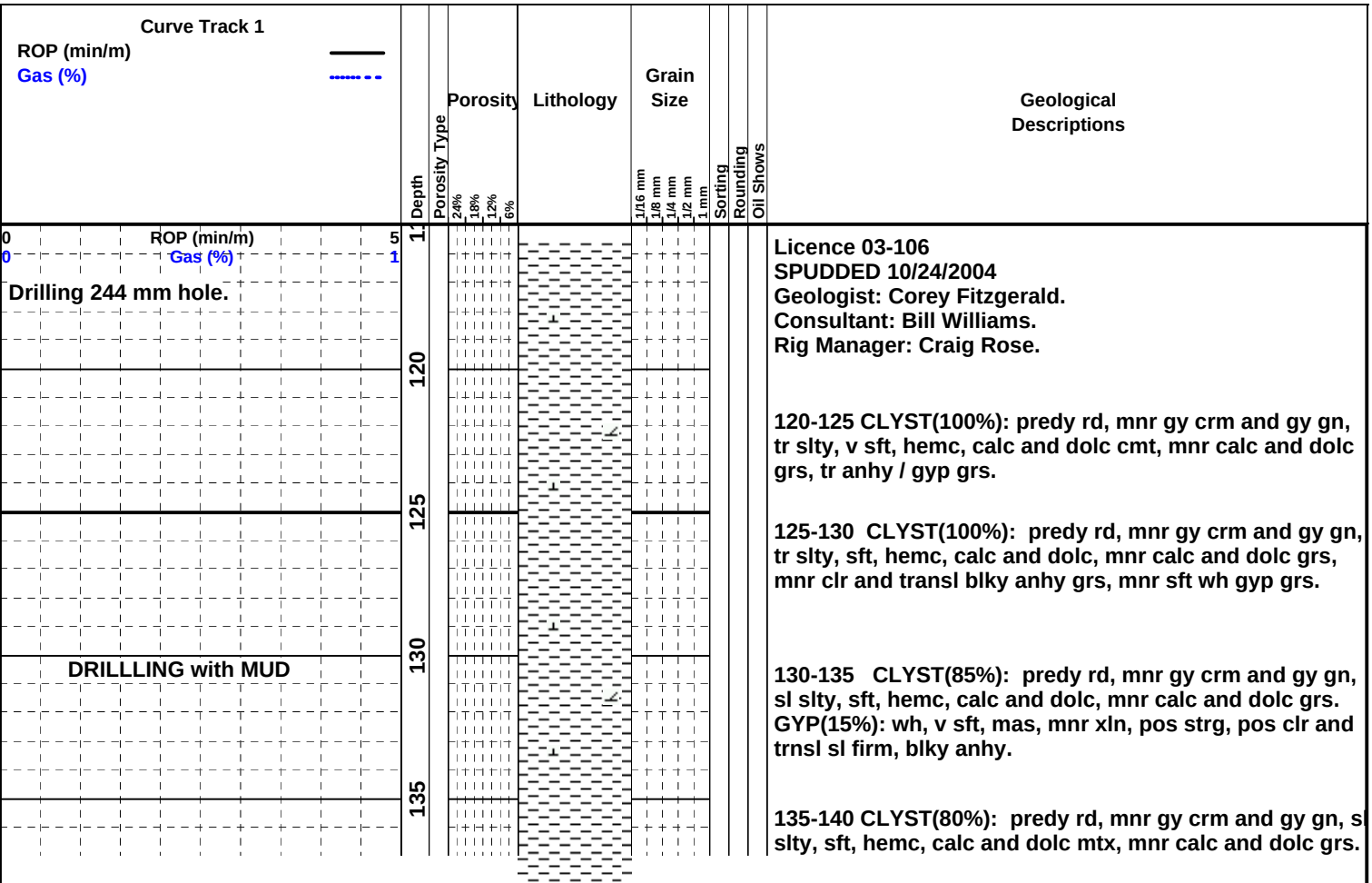
SORTING
- Well
- Moderate
- Poor

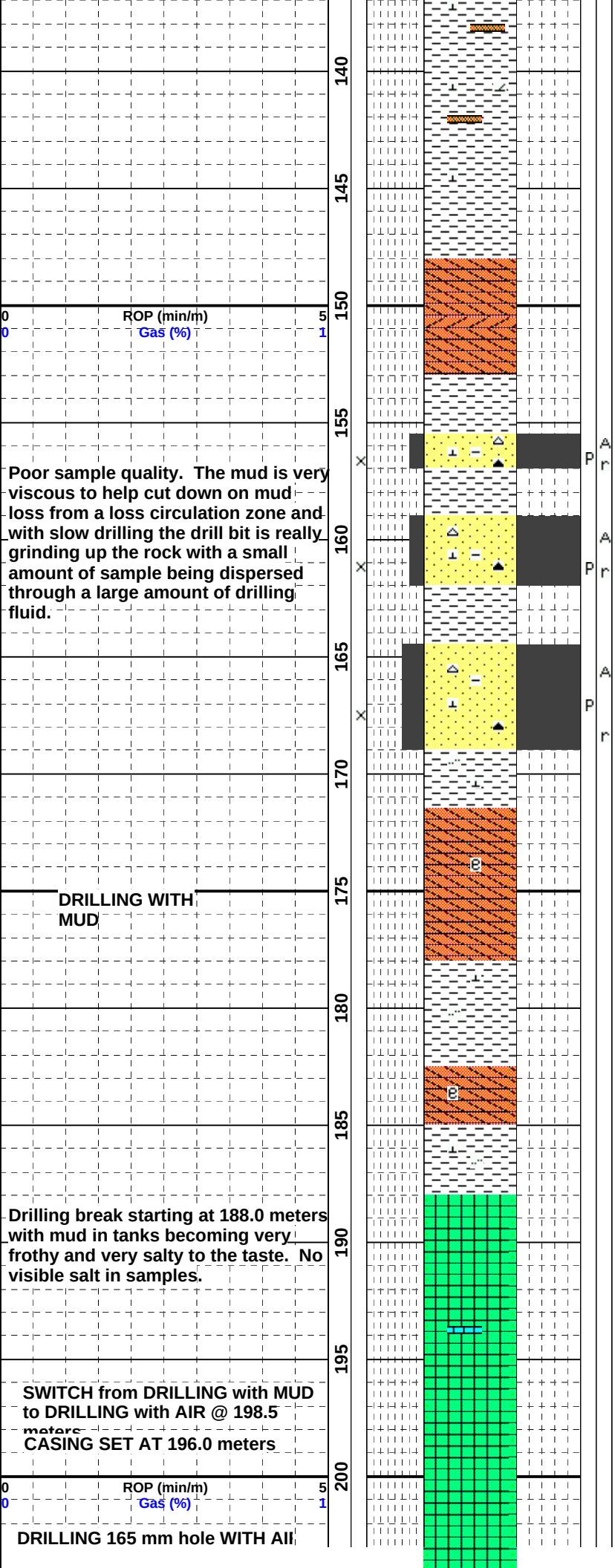
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS
- Even
- Spotted
- Ques
- Dead

INTERVALS
- None
- Core
- Dst

EVENTS
- Rft
- Sidewall





GYP(20%): wh, v sft, mas, rthy to mnr xln, occ clr and trnsl sl firm, blky anhy / gyp frags.

140-145 CLYST(80%): predy rd brn, sl slty, sft, hemc, calc and dolc, mnr calc and dolc grs. GYP(20%): wh to trnsl, v sft, rthy, bcm increasingly xln, flky, pos mnr anhy, tab ip.

145-150 GYP(55%): clr & trnsl to wh, v sft, xln to occ rthy, flky, pos mnr anhy, blky to tab. CLYST(45%): predy rd brn, sl slty, sft, hemc, calc and dolc mtx w mnr calc and dolc grs.

150-155 GYP(80%): crm clr to wh, v sft, 50% xln to 50% rthy, flky, com crm clr firm blky anhy, occ dol rhmb. CLYST(20%): predy rd brn, sl slty, sft, hemc, calc and dolc mtx w mnr calc and dolc grs.

155-160 SS(80%): predy rd brn, lithic, u vf to l vc gr, com red brn calc cly mtx as above, ply srt, ang to occ sb rd, fri, com dk gn, yel, brn and blk silc grs up to 3 mm, mnr rhmbc dolc grs, pos fair intgr por, ns. GYP(20%): clr to wh, v sft, xln to rthy, flky, 10-15% clr to pnk blky to tab anhy grs.

160-165 SS(80%): clr to rd brn, lithic, u vf to l vc gr, up to 15% red brn calc cly mtx, ply srt, 10% sb ang to sb rd qtz grs, fri, com dk gn, yel, brn and blk silc grs up to 3 mm, occ vcol cht, mnr rhmbc dolc grs, pos fair intgr por, ns. GYP(20%): clr to wh, v sft, xln to rthy, flky, mixed w clr blky to tab anhy grs.

165-170 SS(80%): clr to rd brn, lithic, u vf to l vc gr, up to 10% red brn calc cly mtx, ply srt, 15% sb rd to rd qtz grs, fri, com dk gn, yel, brn and blk silc grs up to 3 mm, occ sd rd to ang vcol cht, mnr dolc grs, tr musc, pos fair intgr por, ns. GYP(20%): clr to wh, v sft, xln to rthy, flky, mixed w clr to pnk blky to tab anhy grs.

170-175 CLYST(50%): predy rd, mnr gy gn, sl slty, sft, v sdy ip, pos clayey ss as above, hemc, calc and dolc. GYP(50%): clr to wh, occ dk gn, v sft, rthy, mnr xln, mixed w clr blky to tab anhy.

175-180 GYP(75%): wh, mnr dk xln gyp, v sft, rthy to flky xln, mixed with com rd and blky clr to cloudy anhy frags. CLYST(25%): predy red brn, sft, slty, hemc, calc to sl dolc, mnr dol rhmb and grs, tr sd, tr vcol cht, tr mafic grs.

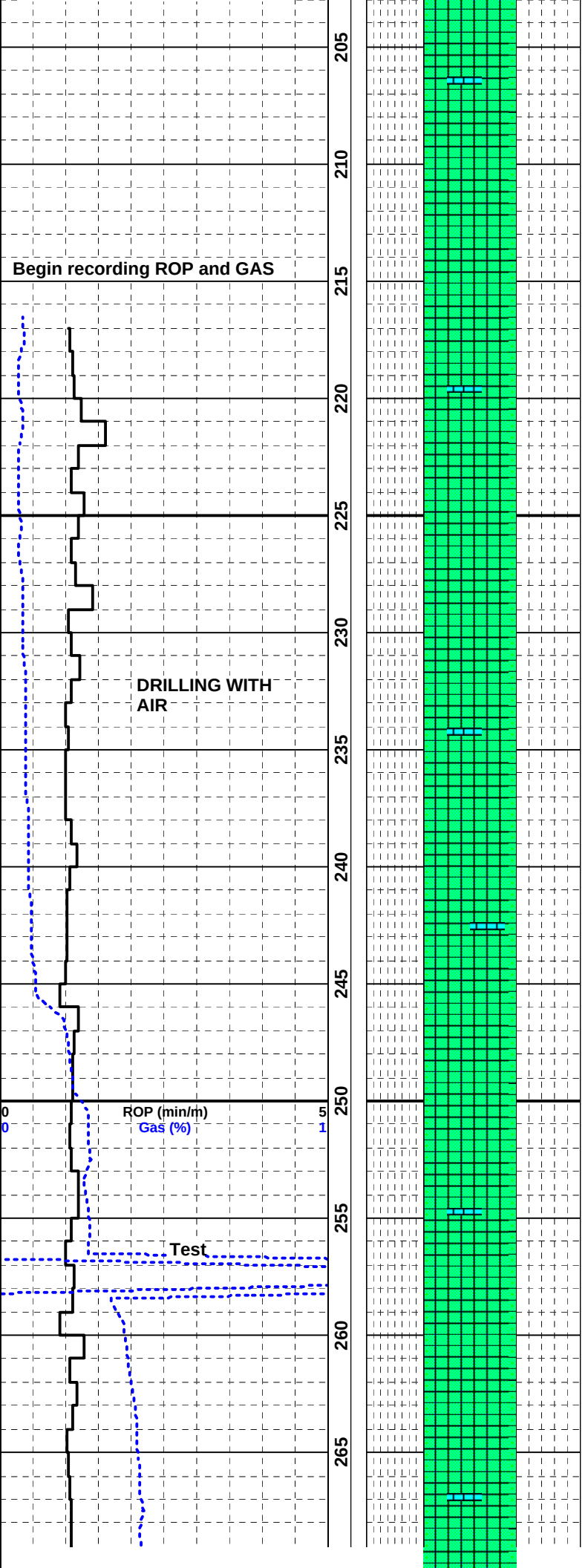
180-185 GYP(60%): wh, mnr dk xln gyp, v sft, rthy to flky xln, mixed with com rd and blky clr to cloudy anhy grs and frags. CLYST(40%): predy red brn, sft, slty, hemc, calc to sl dolc, occ dol rhmb and grs, tr sd, mnr vcol cht, mnr mafic grs.

185-190 GYP(60%): wh, mnr dk xln gyp, v sft, rthy to mnr xln, com xln rd and blky anhy grs and frags. CLYST(40%): red brn, mnr gy gn and gy brn, sft, slty, hemc, wkly calc, sl dolc, occ dol rhmb and grs, mnr sd, pos clayey ss, tr v col cht, occ lt and dk silc grs.

190-198.5 CLYST(45%): red brn, mnr gy gn and gy brn, sft, slty, hemc, wkly calc, sl dolc, occ dol rhmb and grs, tr sd, occ lt and dk silc grs. GYP(55%): wh, v sft, rthy to mnr xln, occ xln blky anhy.

CASING SET @ 196.0 meters

200-205 SA(100%): clr to trnsl, mnr crm wh, xln to mas, blky, powdery, calc ip, sl dolc, mnr wh gyp.



205-215 SA(100%): clr to trnsl, mnr wh crm, xln to mas, blky, sl hd, calc ip, sl dolc, mnr sft wh gyp frags.

215-225 SA(100%): clr to trnsl, mnr wh crm, xln to mas, blky, sl hd, calc ip, wkly dolc, mnr sft wh gyp frags.

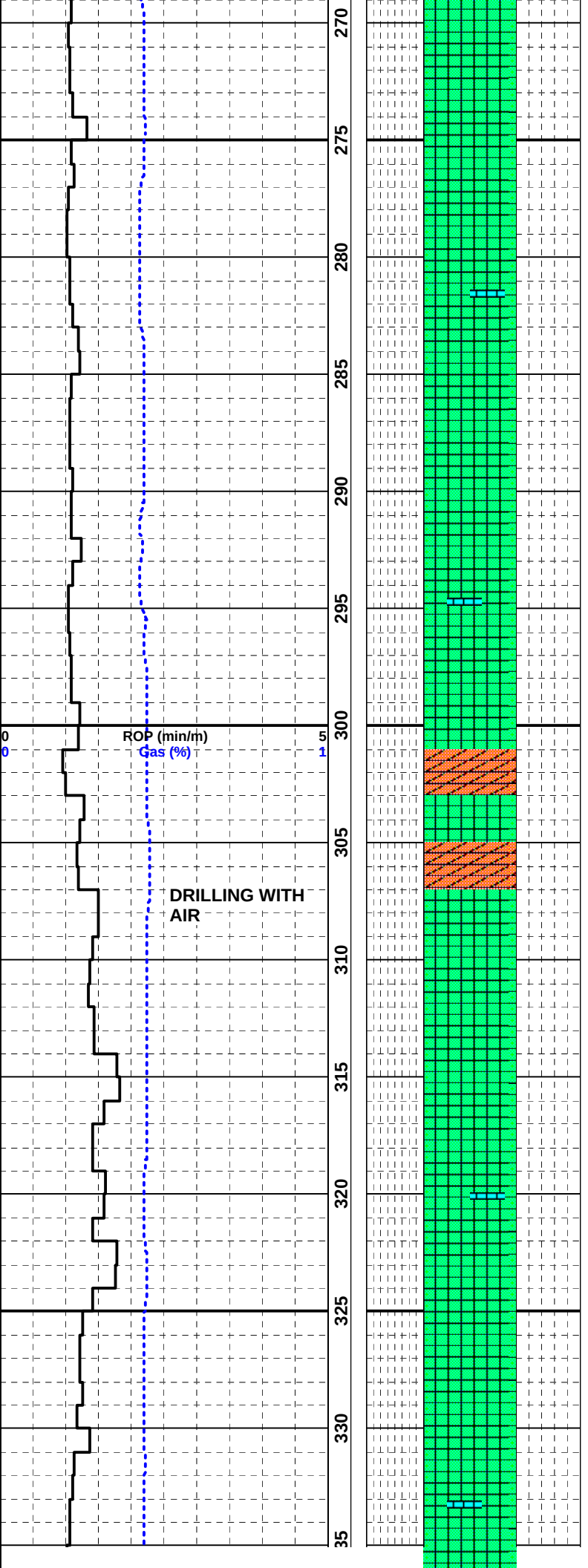
225-235 SA(100%): clr to trnsl, tr wh crm, c xln, mas, blky, firm, calc ip, sl dolc, mnr sft wh gyp frags.

235-245 SA(100%): clr to trnsl, tr wh crm, c xln, mas, blky, firm, calc ip, sl dolc, mnr sft wh gyp frags.

245-255 SA(100%): clr to trnsl, tr wh crm, c xln, mas, blky, firm, calc ip, sl dolc, mnr sft wh gyp frags, occ tan dolc / anhy grs, tr dk pos sh.

255-265 SA(100%): clr to trnsl, tr wh crm, c xln, mas, blky, firm, wkly calc, sl dolc, tr sft wh gyp frags, tr tan dolc / anhy grs, tr dk sh.

265-275 SA(100%): clr to trnsl, c xln, mas, blky, firm, calc ip, sl dolc, tr sft wh gyp frags, rr dk sh.



275-285 SA(100%): clr to trnsl, tr tan, c xln, mas, blky, firm, calc ip, sl dolc, tr sft wh gyp frags, rr dk sh.

285-295 SA(100%): clr to trnsl, tr tan, c xln, mas, blky, firm, calc ip, tr dolc grs.

295-300 SA(100%): clr to trnsl, tr tan, c xln, mas, blky, firm, calc ip, tr dolc grs, occ rd brn clyst pos strng.

300-305 SA(75%): clr to trnsl, tr tan, c xln, mas, blky, firm, calc ip, tr dolc grs, occ rd brn clyst pos strng. ANHY(15%): lt bl gy to wh gy, hd, blky, xln, mas. CLYST(10%): rd brn, mnr gy gn, sft, slty, pos strng.

305-310 ANHY(95%): lt bl gy, hd, blky, xln, mas. SA(5%): clr to trnsl, tr tan, c xln, mas, blky, firm, calc ip, tr dolc grs.

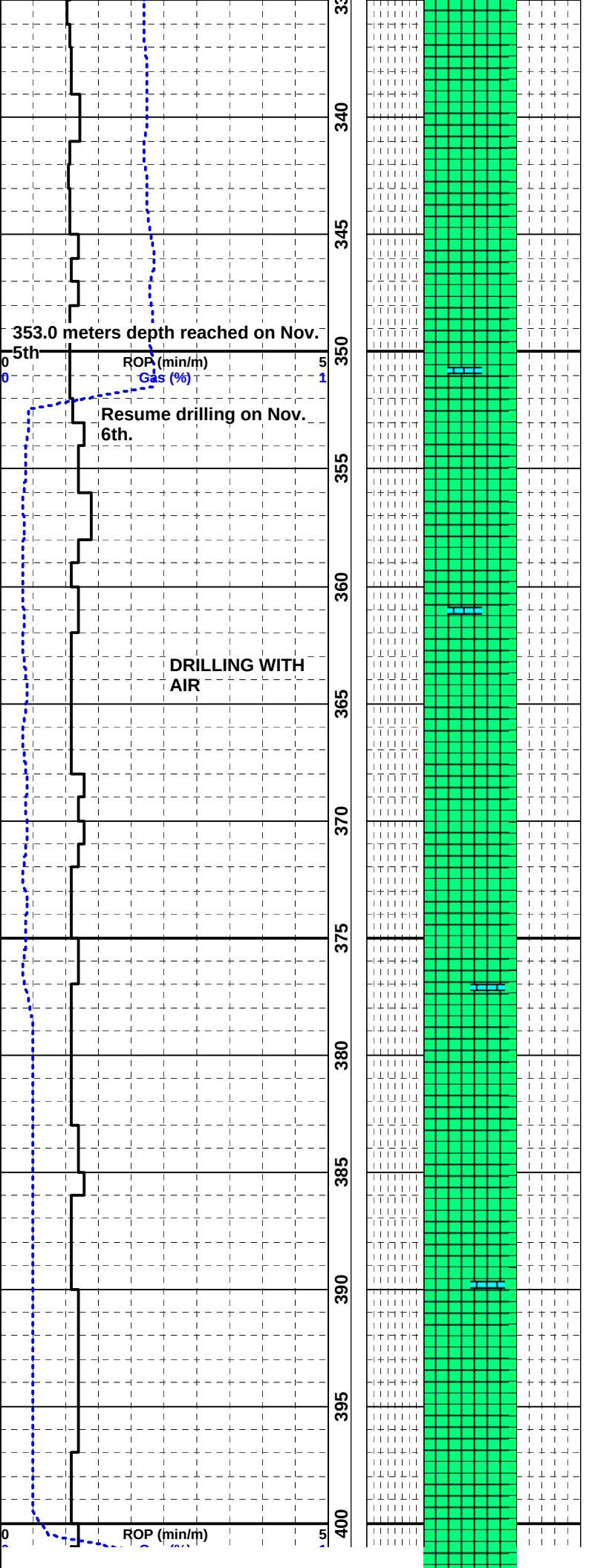
310-315 ANHY(100%): lt bl gy, hd, blky, xln, mas, dolc ip, tr sa.

315-320 ANHY(100%): lt bl gy, hd, blky, xln, mas, sl dolc, fros, rr sa.

320-325 SA(60%): clr to trnsl, tr tan, c xln, mas, blky, firm calc ip, tr dolc grs. ANHY(40%): lt bl gy to wh gy, hd, blky, xln, mas, sl dolc, fros.

325-330 SA(80%): clr to trnsl, c xln, mas, blky, firm, calc ip, tr dolc grs. ANHY(20%): lt bl gy to wh gy, tr tan, hd, blky, xln, mas, sl dolc, fros.

330-335 SA(100%): clr to trnsl, c xln, mas, blky, firm, calc ip, tr dolc grs, occ anhy grs.



335-340 SA(100%): clr to trnsl, c xln, mas, blky, firm, calc ip, tr dolc grs, mnr anhy grs, mnr blk v carb grs.

340-350 SA(100%): clr to trnsl, rr tan, c xln, mas, blky, firm, calc ip, mnr anhy grs.

350-355 SA(100%): clr to trnsl, rr tan, f to c xln, mas, blky, firm, calc ip.

355-360 SA(100%): clr to trnsl, rr tan, f to c xln, mas, blky, firm, calc ip, mnr anhy grs.

360-370 SA(100%): clr to trnsl, rr tan, f to c xln, mas, blky, firm, calc ip, tr anhy grs.

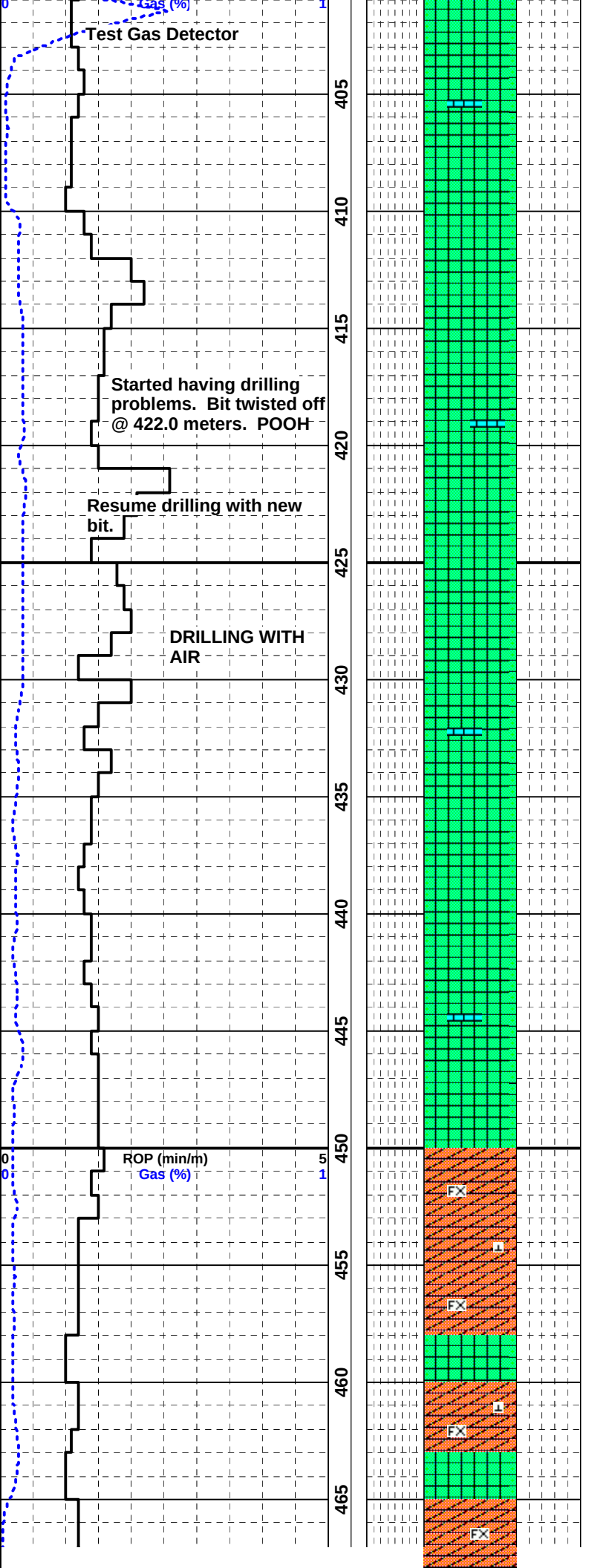
370-380 SA(100%): clr to trnsl, rr tan, c xln, mas, blky, firm, calc ip, wkly dolc, tr anhy grs.

380-390 SA(100%): clr to trnsl, tr tan, c xln, mas, blky, firm, calc ip, wkly dolc, tr to mnr anhy grs.

390-395 SA(100%): clr to trnsl, tr tan, c xln, mas, blky, firm, calc ip, wkly dolc.

395-400 SA(100%): clr to trnsl, tr tan, f to c xln, mas, blky, firm, calc ip, wkly dolc.

400-405 SA(100%): clr to trnsl, tr tan, c xln, mas, blky



firm, calc ip, wkly dolc.

405-410 SA(100%): clr to trnsl, mnr tan, c xln, mas, blky, firm, calc ip, wkly dolc, rr dk carb frags.

410-420 SA(100%): clr to trnsl, mnr tan, c xln, mas, blky, firm, calc ip, wkly dolc, rr dk carb frags.

1st Sample after fish for bit.

420-425 SA(100%): lt brn, clr to trnsl, f to c xln, mas, blky, firm, calc. SAMPLE APPEARS OIL STAINED, NO FLORESCENCE OR CUT AND NO GAS READINGS.

425-430 SA(100%): lt brn, clr to trnsl, f to c xln, mas, blky, firm, calc, occ xln anhy / gyp. SAMPLE APPEARS STAINED, NO FLORESCENCE OR CUT AND NO GAS READINGS.

430-435 SA(100%): clr to trnsl, tr tan, tr dk carb sh, c xln, mas, blky, firm, sl calc.

435-440 SA(100%): clr to trnsl, tr tan, tr dk carb sh, c xln, mas, blky, firm, sl calc.

440-445 SA(100%): clr to trnsl, tr lt brn, tr dk carb sh, c xln, mas, blky, firm, sl calc.

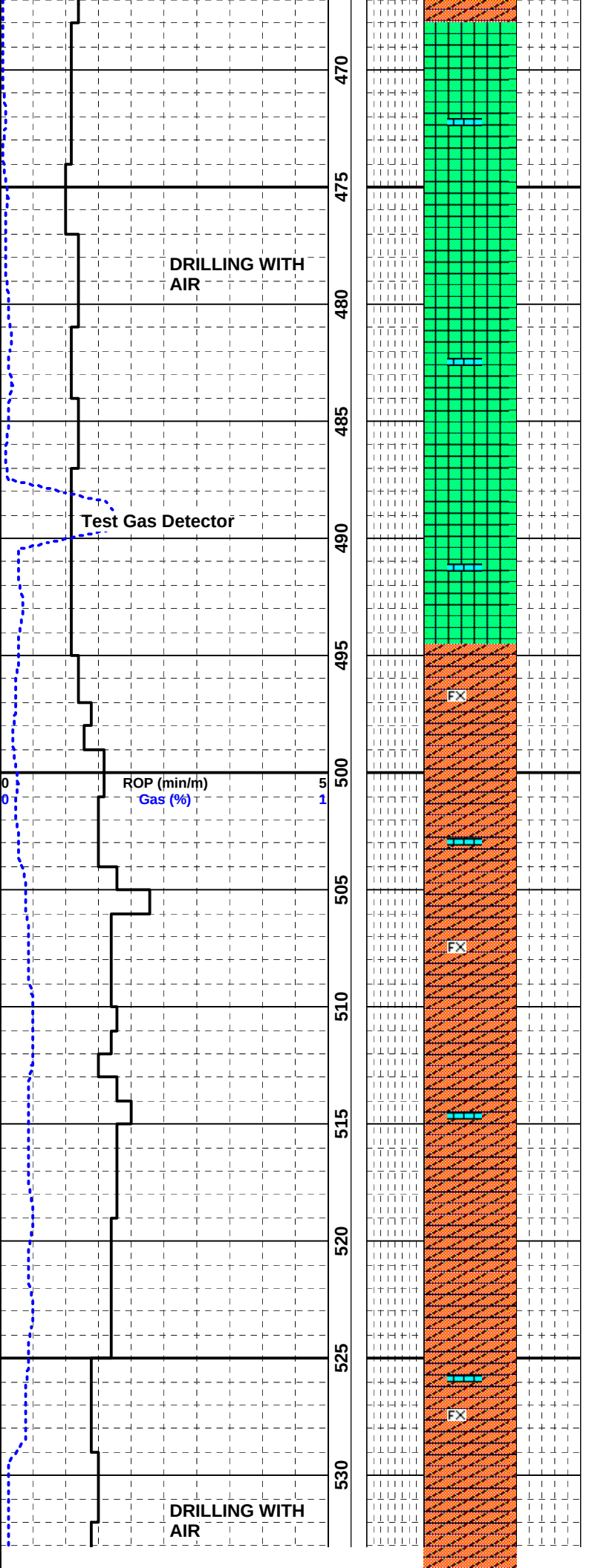
445-450 SA(100%): clr to trnsl, tr to mnr lt brn pos stng, tr dk carb sh, c xln, mas, blky, firm, sl calc, < 5% lt gy anhy, ns.

450-455 ANHY(90%): lt bl gy, lt gy, f xln, blky, firm, mas, occ tan calc blebs. SA(10%): clr to trnsl, tr lt brn, c xln, mas, blky, firm, sl calc.

455-460 ANHY(75%): lt bl gy, lt wh gy, f xln, blky, sft to firm, mas, occ tan calc blebs, fros. SA(25%): clr to trnsl, c xln, mas, blky, sl calc.

460-465 SA(60%): clr to trnsl, c xln, mas, blky, sl calc. ANHY(40%): lt bl gy, lt wh gy, occ tan, f xln, blky, sft to firm, mas, occ tan calc blebs, fros.

465-470 SA(80%): clr to trnsl, c xln, mas, blky, sl calc. ANHY(20%): lt bl gy, lt wh gy, occ tan, f xln, blky, sft to



firm, fros, mas, mnr tan calc blebs.

470-475 SA(90%): clr to trnsl, c xln, mas, blky, sl calc. ANHY(10%): lt wh gy, mnr tan, f xln, blky, sft to firm, fros, mas, mnr tan calc blebs.

475-480 SA(100%): clr to trnsl, c xln, mas, blky, sl calc, mnr anhy grs as above.

480-485 SA(100%): clr to trnsl, c xln, mas, blky, sl calc, mnr tan calc grs, mnr anhy.

485-490 SA(100%): clr to trnsl, c xln, mas, blky, sl calc, mnr tan calc grs, mnr anhy.

490-495 SA(50%): clr to trnsl, c xln, mas, blky, sl calc, mnr tan calc grs. ANHY(50%): lt bl gy, lt wh gy, occ tan, f xln, blky, firm, fros, mas, mnr tan calc / dolc blebs.

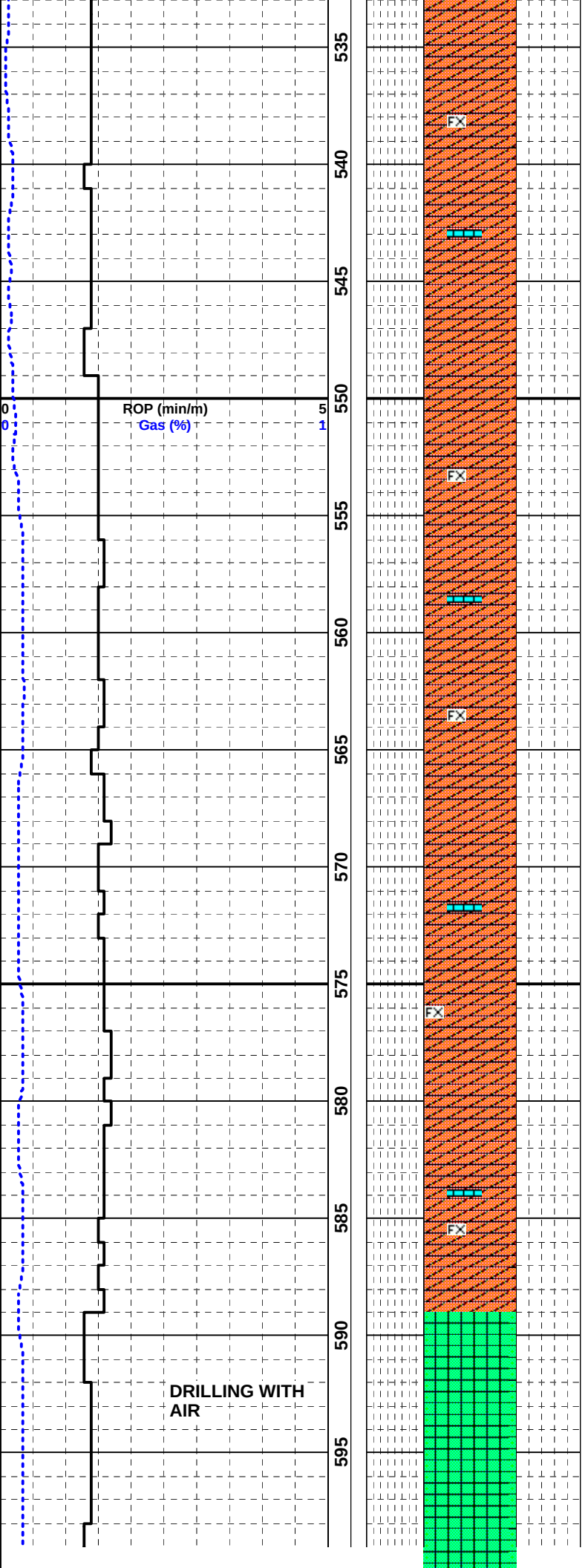
495-500 ANHY(100%): lt bl gy, lt wh gy, lesser tan, f xln, blky, firm, fros, mas, com tan calc / dolc blebs.

500-510 ANHY(100%): lt bl gy, lt wh gy, lesser tan, f xln, blky, firm, fros, mas, occ tan calc / dolc blebs.

510-520 ANHY(100%): lt bl gy, lt wh gy, tan, f xln, blky, firm, fros, suc, mas, occ calc / dolc blebs.

520-530 ANHY(100%): lt bl gy, lt wh gy, tan, f xln, blky, firm, fros, suc, fib ip, mas, occ calc / dolc blebs.

530-540 ANHY(100%): lt bl gy, lt wh gy, tan, f xln, blky, firm, fros, suc, fib ip, mas, com calc / dolc blebs.



540-550 ANHY(100%): lt wh gy, clr, occ tan, f xln, blky, firm, fros, suc, fib ip, mas, occ calc & dolc blebs.

550-560 ANHY(100%): lt wh gy, lt bl gy, clr, mnr tan, f xln, blky, firm, fros, suc, fib ip, mas, occ calc & dolc blebs.

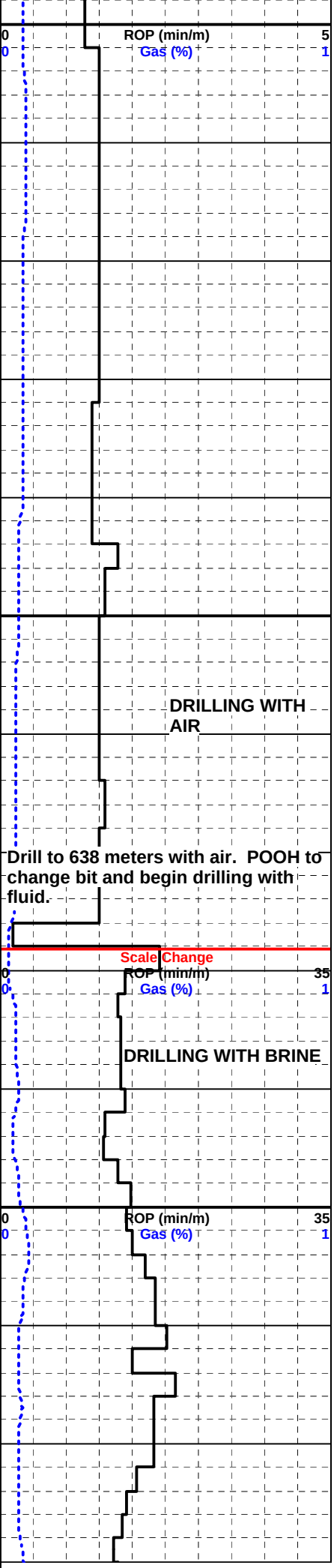
560-570 ANHY(100%): lt wh gy, lt bl gy, clr, mnr tan, f xln, blky, firm, fros, suc, fib ip, mas, occ calc & dolc blebs.

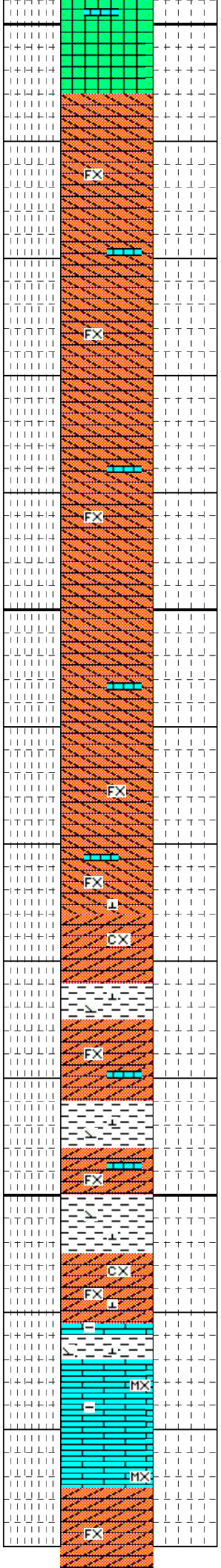
570-580 ANHY(100%): lt wh gy, lt bl gy, clr, occ tan, f xln, blky, firm, fros, suc, mas, occ calc & dolc blebs.

580-590 ANHY(100%): lt wh gy, lt bl gy, incrg gy brn, f xln, blky, firm, fros, mas, powdery, occ calc & dolc blebs.

590-595 ANHY(50%): lt wh gy, lt bl gy, gy brn, f xln, blky, firm, fros, mas, occ calc & dolc blebs. SA(50%): clr to trnsl, blky, c xln.

595-600 SA(80%): clr to trnsl, blky, c xln. ANHY(20%): lt wh gy, lt bl gy, gy brn, f xln, blky, firm, fros, mas, occ calc & dolc blebs.





600-605 SA(95%): clr to trnsl, blky, c xln, mas, calc. ANHY(5%): lt wh gy, lt bl gy, gy brn, f xln, blky, firm, fros, fib, mas, calc & dolc blebs.

605-610 SA(85%): clr to trnsl, blky, c xln, firm, mas, calc. ANHY(15%): lt wh gy, lt bl gy, gy brn, f xln, blky, firm, fros, fib, mas, calc & dolc blebs.

610-615 ANHY(70%): lt wh gy, gy brn, lt bl gy, f xln, blky, firm, fros, mas, calc & dolc frags. SA(30%): clr to trnsl, blky, c xln, firm, mas, calc.

615-620 ANHY(95%): lt wh gy, gy brn, lt bl gy, f xln, blky, firm, fros, mas, calc & dolc frags. SA(5%): clr to trnsl, blky, c xln, firm, mas, calc.

620-625 ANHY(100%): lt wh gy, gy brn, lt bl gy, f xln, blky, firm, fros, mas, calc & dolc frags, mnr sa.

625-638 ANHY(100%): lt wh gy, gy brn, lt bl gy, f xln, blky, firm, fros, mas, calc & dolc frags.

638-645 ANHY(75%): wh, clr & trnsl, f to c xln, fros, firm to sft, fib ip, com wh to tan f xln calc grs. CLY(25%): lt gy, s&p, sft, wkly calc, sl limn.

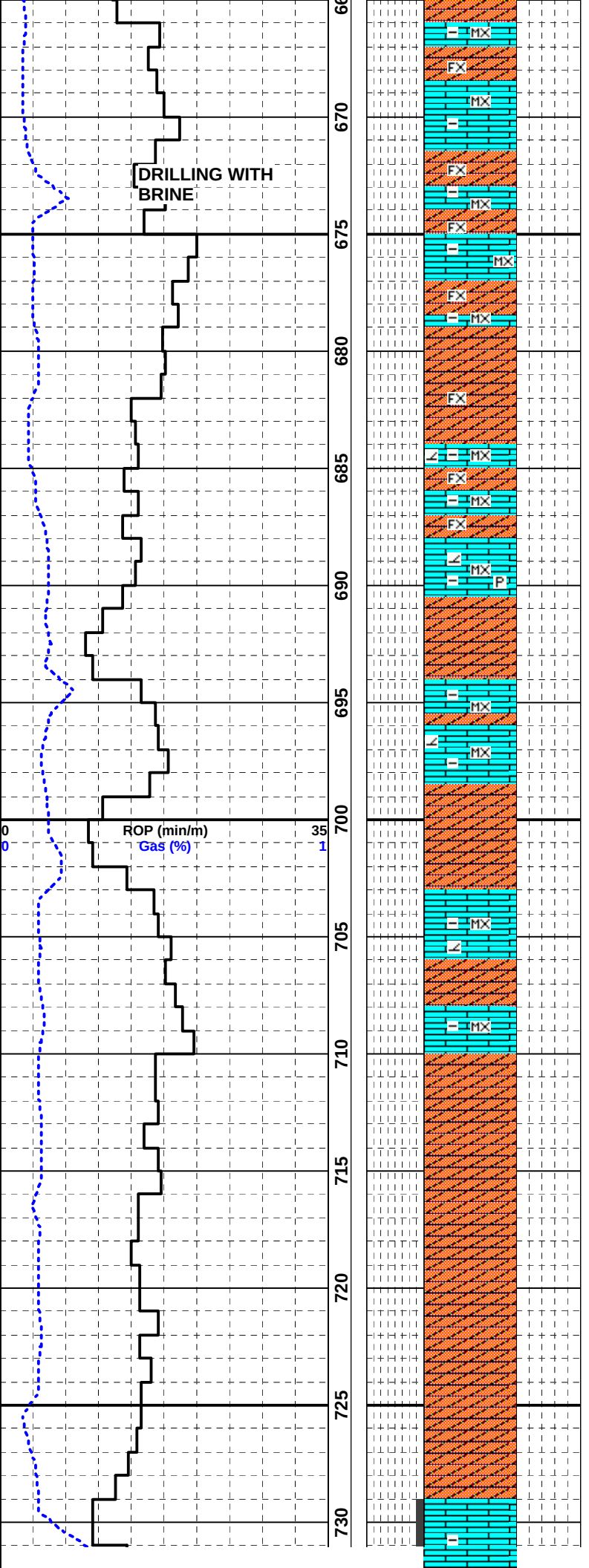
645-650 ANHY(70%): wh, clr & trnsl, f to c xln, fros, firm to sft, fib ip, com wh to tan f xln calc grs. CLY(30%): lt gy, s&p, sft, wkly calc, sl limn.

650-655 CLYST(60%): lt gy, s&p, sft, wkly calc, tr red cly, sl limn. ANHY(40%): wh, clr & trnsl, f to c xln, fros, firm to sft, fib ip, abnt wh to tan f xln calc grs.

SHIP COVE (655.0 meters)

655-660 LS(20%): lt gy, lt crm gy, mcxln w occ f xln grs, firm to occ sft, mas, arg, tt, ns. CLYST(30%): lt gy, s&p, sft, slty, pos clayey sltst, wkly calc, tr red cly, sl limn. ANHY(50%): wh, clr & trnsl, f to c xln, fros, firm to sft, fib ip, abnt blk, sft, attracted to magnet, rusty looking mat, pos off pipe, pos hemc.

660-665 ANHY(50%): wh, occ clr & trnsl, f xln, fros, firm to sft, fib ip. LS(40%): lt gy, lt crm gy, mcxln w occ f xln grs, firm to occ sft, mas, arg, tr red and gn cly, tt, o odour when acid added, occ wh yel flor, slow v faint wh flor cut. CLYST(10%): lt gy, s&p, sft, slty, pos clayey sltst, wkly calc, tr red cly, sl limn.



665-670 ANHY(50%): wh, occ clr & trnsl, f xln, fros, firm to sft, fib ip. LS(50%): lt gy, lt crm gy, mcxln w occ f xln grs, firm to occ sft, mas, arg, tr clyst as above, tr red and gn cly, tt, o odour when acid added, occ wh yel flor, slow v faint wh flor cut.

670-675 LS(60%): lt gy, lt crm gy, mcxln, firm to occ sft, mas, arg ip, tr red and gn cly, tt, o odour when acid added, occ wh yel flor, slow v faint wh flor cut. ANHY(40%): wh, occ clr & trnsl, f xln, fros, firm to sft, fib ip.

675-680 ANHY(55%): wh to clr, suc, mcxln to f xln, sheety ip, occ blky, firm. LS(35%): wh, crm, lesser gy gn, mcxln, v arg ip, somewhat brit, firm ip, tt, o odour when acid added, slow v faint wh flor cut. CLYST(10%): lt gy, s&p, sft, slty, pos clayey sltst, wkly calc, tr red cly, sl limn.

680-685 ANHY(55%): wh to clr, suc, mcxln to f xln, blky, firm. LS(45%): wh, crm, occ gy gn, mcxln, v arg ip, brit to sft, rr glau, tt, wk o odour when acid added, v faint wh flor cut.

685-690 LS(45%): gy, lt gy crm, mcxln, arg, mas, tr f desm pyr, mnr gy gn grs, sl dolc, pos oolc strucs within ls, lam ip, tt, faint o odour when acid added, extremely faint wh flor cut. AHNY(55%): wh, occ clr grs within wh mtx, c xln, sheety in places, sft to occ firm.

690-695 LS(45%): gy, lt gy crm, mcxln, arg, mas, mnr f desm pyr, mnr gy gn grs, pos oolc strucs within ls, lam ip, tt, ns. AHNY(55%): wh, occ clr grs within wh mtx, c xln, sheety in places, sft to occ firm.

695-700 LS(50%): crm, mnr wh and gy, mcxln, tr pyr, mnr red and dk sh, mas, pos intbds of anhy, oil odour when acid added, tt, ns. ANHY(50%): wh to clr, suc, f xln, sheety ip, occ blky, firm.

700-705 LS(45%): crm, mnr wh and gy, mcxln, tr pyr, mnr red and dk sh, mas, pos intbds of anhy, oil odour when acid added, tt, v faint to n flor cut. ANHY(55%): wh to clr, lt gy, mas, suc, mcxln to f xln, blky to mnr sheety, firm.

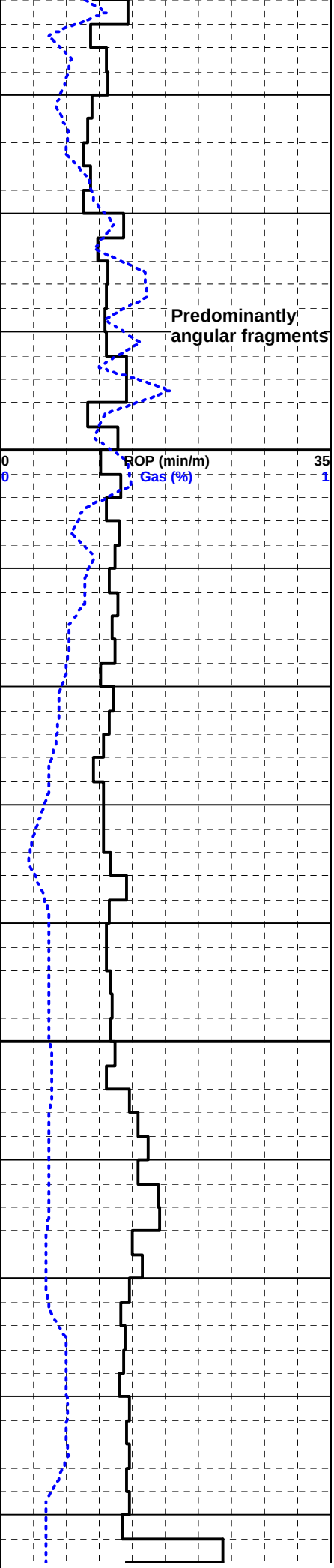
705-710 ANHY(65%): wh to clr, lt gy, mas, suc, mcxln to f xln, blky to mnr, firm. LS(35%): crm, mnr wh and gy, mcxln, mas, oil odour when acid added, tt, pos v faint wh flor cut.

710-715 ANHY(75%): wh, lt gy, f xln, abnt calc cmt, mas, firm, blky ip. LS(25%): crm to gy, mnr wh, mcxln, mas, powdery, oil odour when acid added, pos occuring as cement within ANHY, tt, pos v faint wh flor cut.

715-725 ANHY(75%): wh, lt gy, f xln, either a v calc anhy or a v anhyc ls, mas, firm, blky ip. LS(25%): crm to gy, mnr wh, mcxln, wkly dolc, rr pyr, mas, powdery, oil odour when acid added, pos occuring as cement within ANHY, tt, v faint wh flor cut.

725-730 ANHY(75%): wh, lt gy, crm, f xln, abnt crm calc cmt?, either a v calc anhy or a v anhyc ls, mas, firm, blky ip. LS(25%): crm to mnr gy and wh, mcxln, wkly dolc, rr pyr, mas, powdery, oil odour when acid added, pos occuring as cement within ANHY, tt, ns.

730-735 LS(65%): gy brn, occ lt gy, v arg, blky, mcxln,



firm, mas, dns, tt, strong o odour when acid added, tr slow blmg mky wh flor cut. AHNY(35%): lt gy, wh, mas, f xln to mclxn, calc cmt, firm, tt.

735-740 LS(80%): gy brn, occ lt gy, v arg, blky, mcxln, carb ip, mnr aqua gn grs, tr slty, rr pyr, firm, mas, dns, tt, strong o odour when acid added, tr slow blmg mky wh flor cut. AHNY(20%): lt gy, wh, mas, f xln to mclxn, calc cmt, firm, tt.

FISCHELLS BROOK (740.0 meters)

740-745 CGLN(100%): lt gy gn, lt gy, occ pinkish, predy vf to l med qtz grs, mnr c gr, ang to occ sb rd, tr rd, fri, calc and mnr silc cmt, pos kao, ply srt, occ qtz ovgth, 10% clouded to mnr clr to trnsl silc grs, com aqua gn glauc grs, com pink to orange fld, com crm to gy calc grs, pos fair intgr por, ns.

745-750 CGLN(100%): lt gy crm, l f to l c grs, ang to lesser sb rd, fri, calc and lesser silc cmt, kao, ply srt, com clr and trnsl to clouded silc frags and cmt, com aqua gn glauc grs, occ pink to orange fld, com crm tr pink blky calc frags, com lt to dk gy dolc frags, com lt gy blky dolc grs, occ clr and trnsl to wh blky anhy? frags, occ vcol cht frags, pos fair intgr por, ns.

750-755 CGLN(100%): lt gy gn, lt gy, occ pinkish, 30% v f to pos c qtz grs, ang to mnr sb rd, fri, calc cmt, pos silc cmt, mnr kaol, ply srt, com clr to clouded silc grs and frags, com gn glauc grs, occ fld, com crm tr pink blky calc grs / frags, com lt and dk gy dolc frags, occ clr to fros anhy frags, pos fair intgr por, ns.

755-760 CGLN(100%): lt gy to gy, 25-30% v f to mnr u c qtz grs, occ ang to mnr sb rd qtz grs, ply srt, abnt wh calc cmt, mnr qtz ovgths, sl kao, com dolc frags, com gn grs, com fld grs / frags, com gy brn and lesser pink ls frags, lmnc, occ clr blky anhy grs?, pos fair intgr por, sl o odour when acid added, ns.

760-765 CGLN(100%): lt gy to gy, 25-30% v f to mnr u c qtz grs, ang to lesser sb rd qtz grs, ply srt, calc cmt, occ qtz ovgths, dolc, com glauc grs, occ fld grs, com gy brn and lesser pink rr oolc ls frags, occ clr blky anhy grs?, lmnc ip, pos fair intgr por, sl o odour when acid added, ns.

765-770 CGLN(100%): lt gy, 30% slty to u med grs, sb ang to lesser sb rd qtz grs, ply srt, calc cmt, pos mnr silc cmt, fri, kao ip, com dolc frags, glauc, occ fld grs, com gy brn and lesser pink ls frags, lmnc ip, tt to pos fair intgr por, ns.

770-775 CGLN(100%): lt gy, 30% slty to u med qtz grs, sb ang to lesser sb rd qtz grs, ply srt, calc and lesser silc cmt, fri, kao ip, com dolc frags, glauc, incrg fld grs, com gy brn and lesser pink ls frags, lmnc ip, mnr anhy, tt to pos fair intgr por, ns.

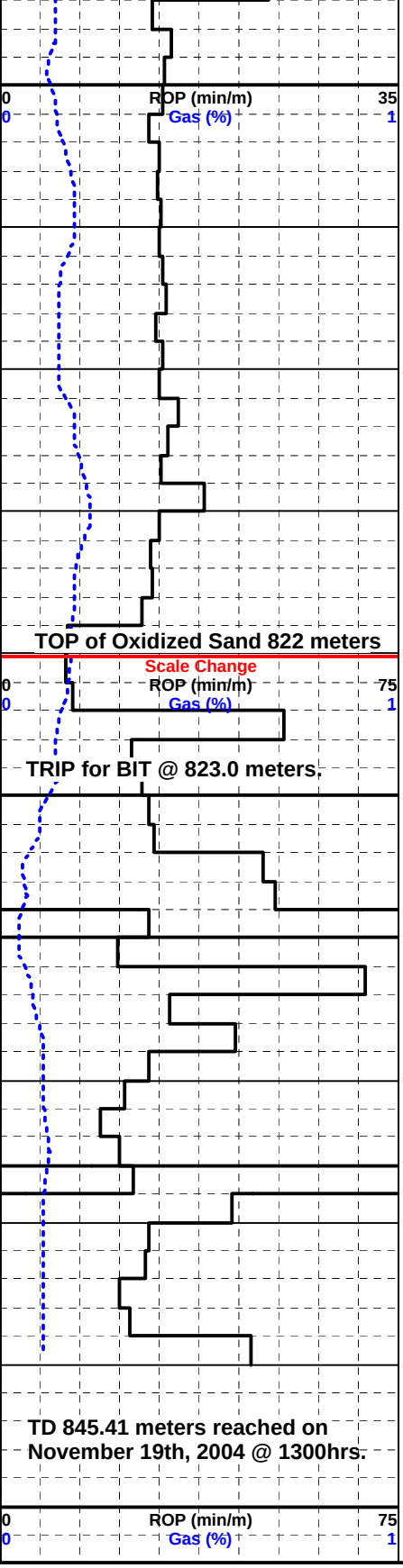
775-780 CGLN(100%): lt gy, 25% slty to u med qtz grs, with abnt dolc and calc frags, sb ang to lesser sb rd qtz grs, ply srt, calc cmt, pos mnr silc cmt, occ anhy, fri, kao ip, glauc, occ fld grs, lmnc ip, tt to pos fair intgr por, ns.

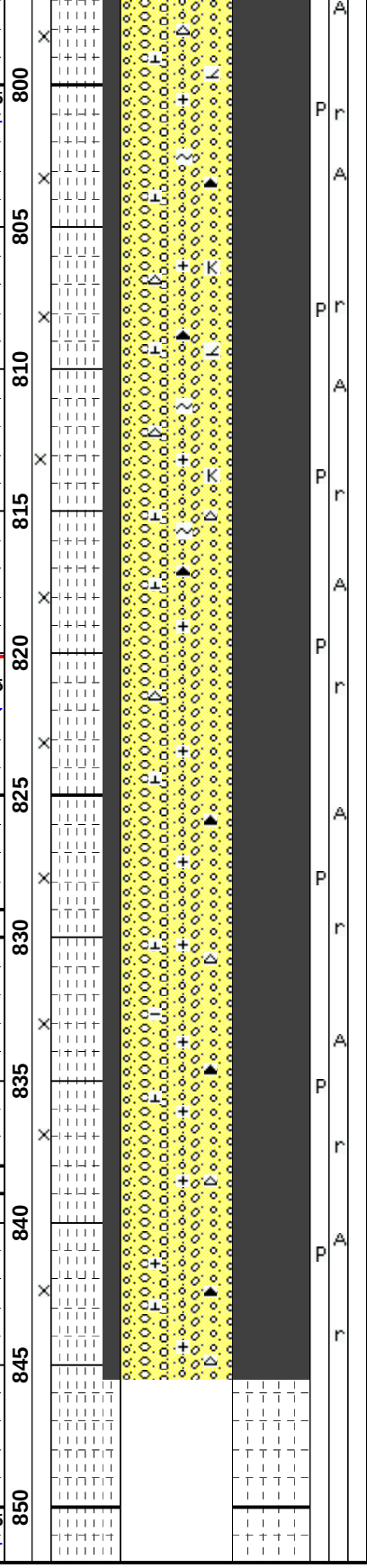
780-785 CGLN(100%): lt gy crm, 20% slty to l c gr qtz mtx, with abnt dolc and calc frags, sb ang to lesser sb rd qtz grs, ply srt, incrg calc cmt, pos mnr silc cmt, fri, kaol, com anhyc mat, glauc, occ fld grs, lmnc ip, tt to pos fair intgr por, ns.

785-790 CGLN(100%): lt gy, sl pinkish, 35% v slty to med gr qtz mtx, ang to occ sb rd, calc and mnr kao cmt, fri, occ gn glauc frags, occ pink fld, occ vcol silc frags, com lt gy brn ls, com dolc frags, hemc ip, mnr anhy, tt to pos fair intgr por, ns.

790-795 CGLN(100%): lt gy crm, pinkish ip, 25% vf to l c gr sd mtx, ply srt, ang to occ sb rd, incrg calc and lesser kao cmt, mnr silc cmt, hemc ip, occ dk plty fe frags, occ vcol cht frags, com dolc and calc frags, occ glauc grs, fldc, tt to pos f intgr por, ns.

795-800 CGLN(100%): lt gy crm, pinkish ip, 40% predy v f to f lesser med gr sd mtx, ply srt, ang to occ sb rd, calc





and lesser kao cmt, mnr silc cmt, hemc ip, occ vcol ch frags, com dolc and calc frags, occ glauc grs, fldc, tt to pos f intgr por, ns.

800-805 CGLN(100%): lt gy crm, 30-40% predy v f to f gr sd mtx, mnr f to l c sd, slty, ply srt, ang to occ sb rd, calc and lesser kao cmt, mnr silc cmt, hemc ip, occ vcol cht frags, com dolc and calc frags, occ glauc grs, fldc, tt to pos f intgr por, ns.

805-810 CGLN(100%): lt gy crm, pinkish ip, 15-20% f to med gr sd mtx, ply srt, ang to occ sb rd, calc and mnr kao cmt, pos mnr silc cmt, hemc ip, incrg vcol cht frags, com dolc and calc frags, occ gyp?, occ glauc grs, fldc, tt to pos f intgr por, ns.

810-815 CGLN(100%): lt gy crm to sl pinkish, 15-20% slty to med gr sd mtx, ply srt, ang to occ sb rd, calc and mnr kao cmt, pos mnr silc cmt, incrg hemc, occ vcol cht frags, com dolc and calc frags, occ glauc grs, incrg fldc, occ gyp, tt to pos f intgr por, ns.

815-820 CGLN(100%): lt gy crm to incrg pinkish / hemc, 25-30% vf to l c gr sd mtx, pos red clay mtx (water turns reddish when sample is being washed), ply srt, ang to occ sb rd, hard, calc and lesser silc cmt, mnr kaol, v fldc, mnr anhy, com vcol cht frags, com blk flky mat (strong attraction to magnet), occ dolc and calc frags, occ glauc grs, occ gyp, tt to pos f intgr por, ns.

820-825 CGLN(70%): lt red to crm, 35-40% predy v f to med lesser l c gr qtz grs, slty, com pink fld grs, red cly mtx, decrng calc cmt, mnr kaol, com qtz ovgth, hard, hemc, ply srt, ang to occ sb rd, com vcol cht frags, com blk plty mat (pos hem), decrng dolc and ls frags, tt to pos fair intgr por, ns. ANHY(20%): wh to lt gy and crm, mnr clr, mcxln to occ cyxln, fros, sl calc, plty to blky, rr vug por, predy tt, ns. SLTST / CLYST(10%): wh to lt gy, s&p, firm, dns, sl calc, lmnc.

825-830 CGLN(65%): As above, lt red to crm, 10-15% med to lesser l c gr qtz grs, com pink fld grs, red cly mtx, decrng calc cmt, hard, hemc, mnr glau, ply srt, tt to pos fair intgr por, ns. ANHY(25%): wh to lt gy, mcxln to occ cyxln, fros, sl calc, plty to blky. SLTST / CLYST(15%): wh to lt gy, s&p, firm, dns, sl calc, lmnc.

830-840 CGLN(85%): lt red brn, 10-15% med to l v c qtz grs, com pink fld grs, abnt red cly mtx, calc cmt, mnr kaol, incrg ly hemc, ply srt, ang to occ rd, abnt vcol silc frags, incrng ly silc, 5% blk flky mat (pos hem), mnr glau, sl dolc, com wh to pink ls frags, occ to com qtz ovgth, tt to assumed fair intgr por, ns. ANHY(15%): wh, lt gy, fros, mcxln to lesser cyxln, sl calc.

840-845.50 CGLN(80%): lt red brn, 10% med to l v c qtz grs, abnt pink fld grs, abnt red cly mtx, calc cmt, mnr kaol, v hemc, ply srt, ang to sb rd, abnt vcol silc frags, hard, com blk flky mat (pos hem), mnr glau, sl dolc, occ wh to pink ls, occ to com qtz ovgth, tt to assumed fair intgr por, ns. ANHY(20%): wh, lt gy, fros, mcxln to mnr cyxln, plty, sl calc.

APPENDIX G: STRATIGRAPHIC COLUMN

FLAT BAY #2 WELL LOG

Depth (m)	Lithology	Brief Description	Shows
0		Claystone	
100		Claystone with gypsum Gypsum with sandstone and claystone	
200		Salt	
300		Salt with anhydrite Salt	
400		Salt with anhydrite Salt	oil stain salt @ 420-430m
500		Anhydrite	
600		Anhydrite with salt Anhydrite	
700		Anhydrite with limestone and claystone	660-740m - faint to slow white fluorescent cut - oil odour when acid added
		Limestone - Ship Cove Fm 725-740m	
800		Fischells Brook Fm Light grey conglomerate	730-755m - elevated total gas readings - some oil odour when acid added.

TD 845m

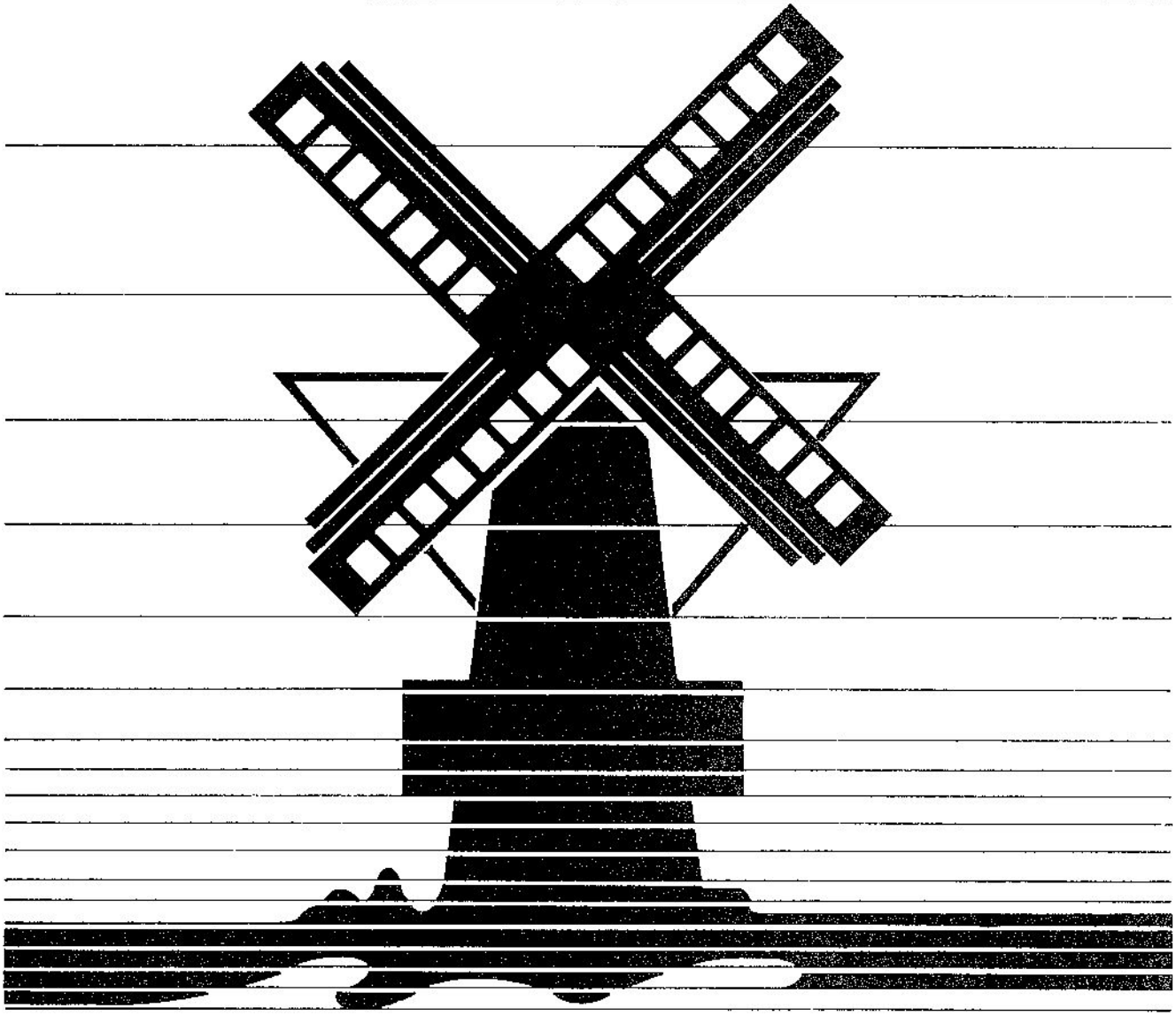
APPENDIX H: DOWNHOLE LOGS

The data for this appendix can be found in the Department of Natural Resource’s Confidential Well File room.

APPENDIX I: FORMATION FLOW TEST

Customer	Vulcan Minerals Inc.	Customer Rep.	Mr. Bill Williams
Location	Flat Bay #2, Newfoundland		
Interval	730 - 845.4	Total Depth	845.4
Test Number	one	Formation	Fischell's Brook
Test Type	Dual Bottom Hole	Tester	Dale Holland
Test Date	November 23-24, 2004	K. B. Elevation	52.85
		Ground Elevation	50.0
		Bottom Hole Temperature (C)	12.85

DRILL STEM TEST REPORT



HOLLAND TESTERS LTD.

R R # 3 WHEATLEY ONTARIO N0P 2P0

HOLLAND TESTERS LTD.

R.R. #3 Wheatley, Ontario N0P 2P0 1-519-825-3680

Customer: Vulcan Minerals Inc. | Customer Rep.: Mr. Bill Williams
Location: Flat Bay #2, Newfoundland
Interval: 730 - 845.4 | Total Depth: 845.4 | Formation: Fischell's Brook
Test Number: one | Tester: Dale Holland
Test Type: Dual Bottom Hole | K. B. Elevation: 52.85 | Ground Elevation: 50.0
Test Date: November 23-24, 2004 | Bottom Hole Temperature (C): 12.85

RECOVERY: 1.524	Metres Total Fluid	Sampler # 002 ; #	
	Metres of	SAMPLED AT:	
1.524	Metres of Drilling Fluid	.305	Metres
	Metres of		Metres
	Metres of		Metres
	Metres of	Bottom Hole	Metres
		Sampler	Above Tool

REMARKS: Open for preflow with faint air blow 1/8" in bubble pail decreasing to dead in 2 min. On valve open, dead chart shows tool plugging on preflow but shut-in and valve open is all O-Kay.

GAS READINGS

TIME min.	PRESS kPa	TEMP C	ORIFICE mm	RATE m3/d	TIME min	PRESS kPa	TEMP C	ORIFICE mm	RATE m3/d

Gas Samples: # ; # ; Sent to
Gas Measured by: No gas to surface

TOOL TALLY

PO Sub	.305
DP ~~X~~Over	.305
Recorder	1.524
Shut-in	1.660
Sampler	1.460
Sampler	
Hydraulic	1.710
Jars	2.030
M/Record	1.524
E/Record	1.829
Temp Rec	
By-pass	
Safety Jt	.700
Packer	2.340
Packer	1.530
Upper Packer depth	729.89

DOWNHOLE PRESSURE DATA (KPAG) Test Times: PF 10 ISN 60 VO 60 FSN 840

Recorder Number		7419	13544	20639	9644	20641	
Recorder Range		22754	23267	24132	26201	24132	
Clock Hour -Emp		24 Hr	24 Hr	EMP	48 Hr	EMP	
Depth - Metres		713.888	722.272	725.015	734.767	737.51	
Position of Pressure Port		FLUID	INSIDE	INSIDE	OUTSIDE	OUTSIDE	OUTSIDE
Initial Hydrostatic	(A)		8938	8882	8985	9021	
Start First Flow	(B)	0	542	551	681	655	
End First Flow	(B1)	0	647	669	772	814	
First Shut-In	(C)	0	822	848	969	985	
Start Second flow	(D)	0	216	138	302	276	
End Second flow	(E)	0	117	141	282	277	
Second Shut-In	(F			363	498	494	
Start Third Flow	(H)						
End Third Flow	(I)						
Third Shut-In	(J)						
Final Hydroststic	(G			8788	8953	9012	

Packer	.305
Perfs	4.267
By-pass	
M / Record	1.524
E / Record	1.524
X Over	
DP / DC	
X Over	
Blank	
Packer	
Lower Packer depth	

Packer	
Packer	
Perfs	
Recorder	
X Over	.305
DP ~~DC~~	106.680
X Over	.305
Bullnose	.600
Total depth	845.40

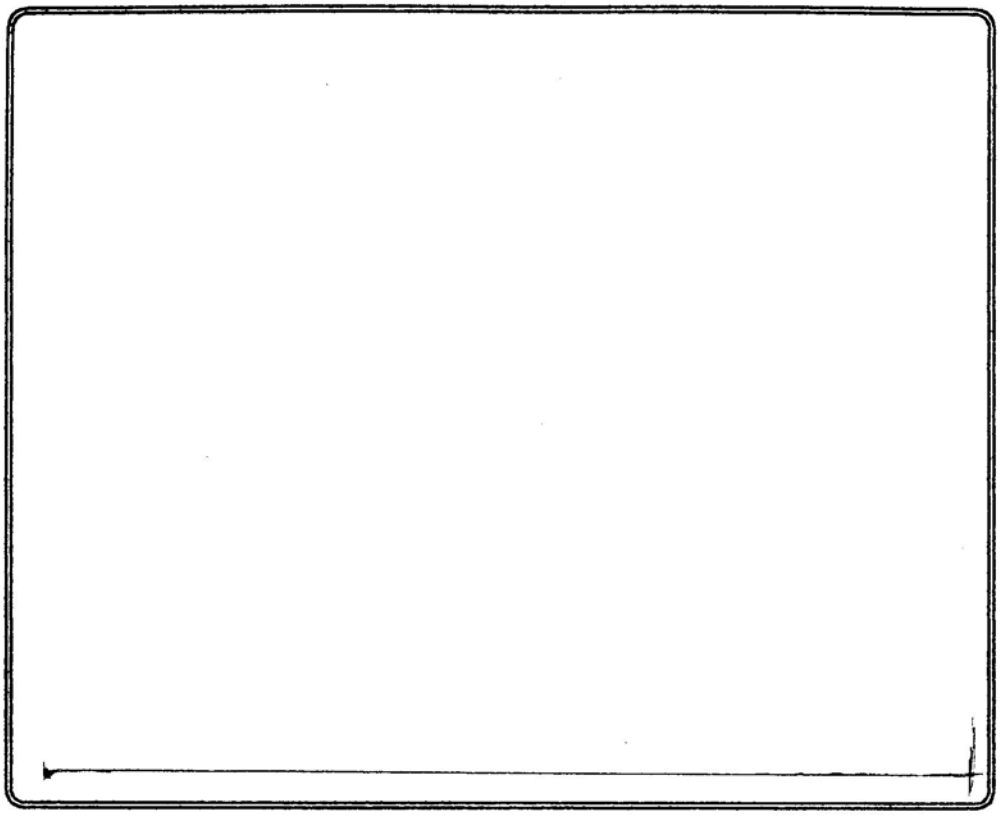
TEST IS: Misrun; Satisfactory Satisfactory

Started in hole @	1100	Opened tool @	1524	Out of hole @	1100
DP size (mm)	114.3 2 7/8IF	Weight (kg/m)	24.7	Main hole size (mm)	165.1
DP length (m)	717.973	DC size ID (mm)	N/A	DC above tool (m)	N/A
Mud weight (kg/m3)	1200	Visc (s/L)	38	Water loss (cm3)	N/A
PACKER RUBBER SIZE (MM)	139.7	BOTTOM HOLE COKE (MM)	19.05		

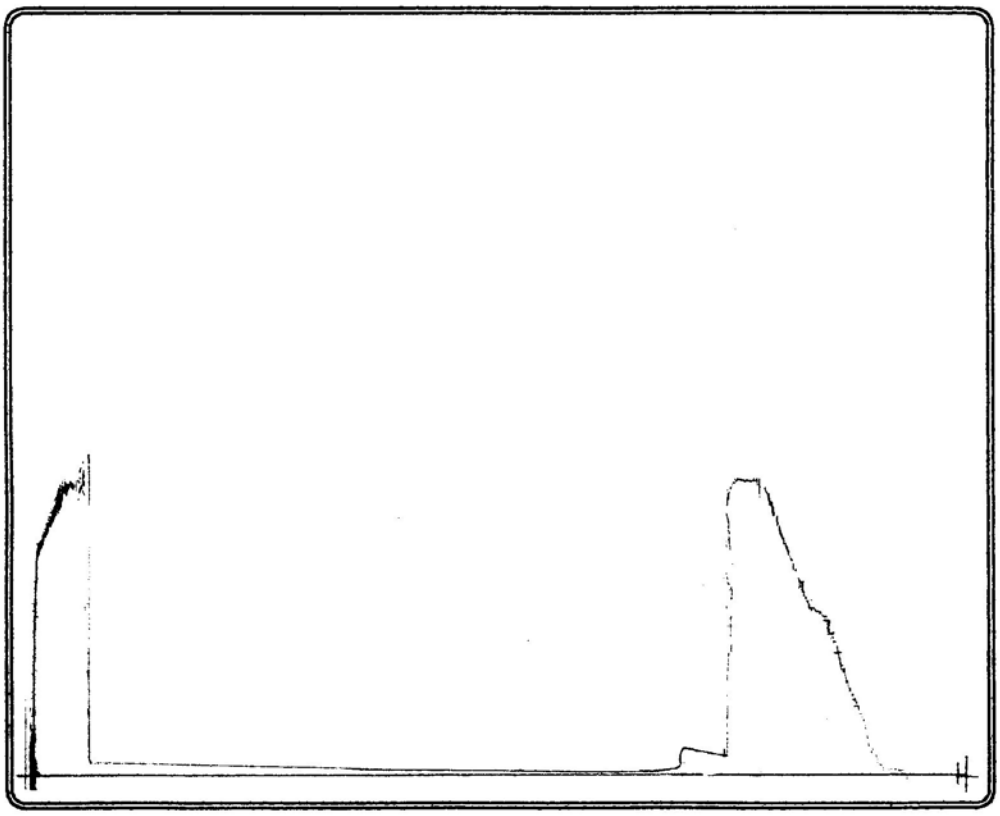
Total Interval	115.51
Total Tail Pipe	115.51
Tool Make up Time	2.0 Hr

DRILL-STEM-TEST CHARTS

Well Location: FLAT BAY #2 NEWFOUNDLAND



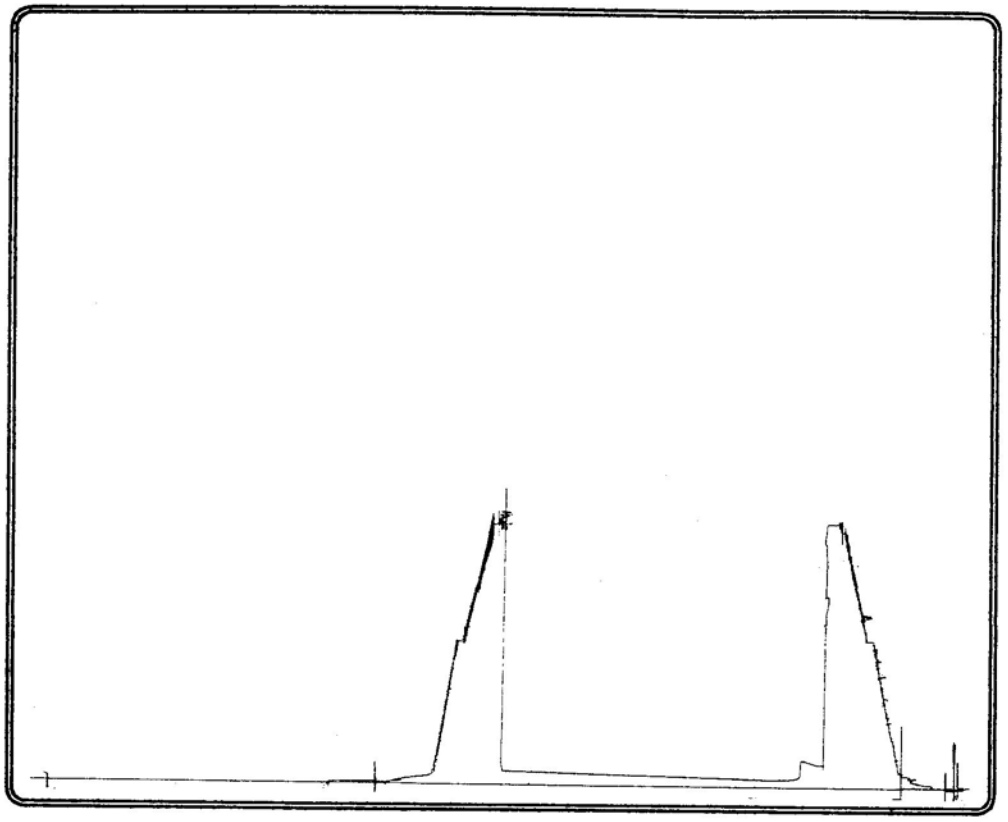
Recorder No.	7419
Recorder Depth	713.888 MKB
DST Number	ONE
Pressure Units	KPAG
Initial Hydro.	0
Initial Preflow	0
Final Preflow	0
1st Final Shut-in	0
1st Initial Flow	
1st Final Flow	0
2nd Final Shut-in	0
Final Hydro.	0



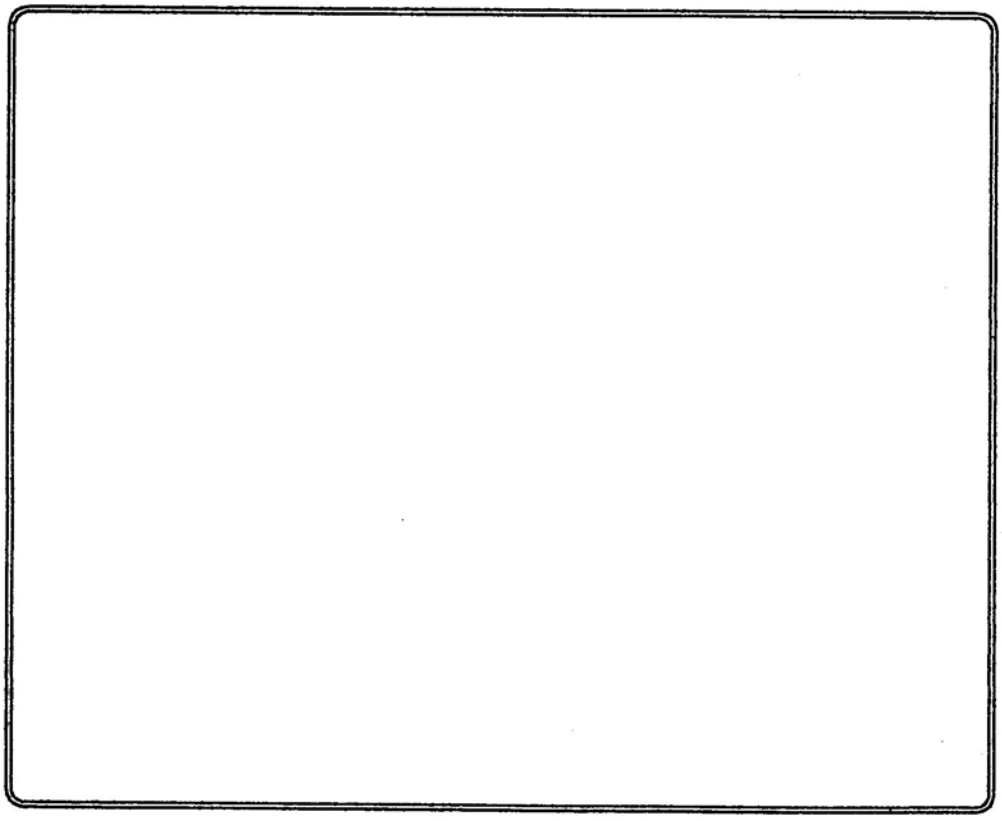
Recorder No.	13544
Recorder Depth	722.272 MKB
DST Number	ONE
Pressure Units	KPAG
Initial Hydro.	8938
Initial Preflow	542
Final Preflow	647
1st Final Shut-in	822
1st Initial Flow	216
1st Final Flow	117
2nd Final Shut-in	
Final Hydro.	

DRILL-STEM-TEST CHARTS

Well Location: FLAT BAY #2 NEWFOUNDLAND



Recorder No.	9644
Recorder Depth	734.767 MKB
DST Number	ONE
Pressure Units	KPAG
Initial Hydro.	8985
Initial Preflow	681
Final Preflow	772
1st Final Shut-in	969
1st Initial Flow	302
1st Final Flow	282
2nd Final Shut-in	498
Final Hydro.	8953



Recorder No.	
Recorder Depth	
DST Number	
Pressure Units	
Initial Hydro.	
Initial Preflow	
Final Preflow	
1st Final Shut-in	
1st Initial Flow	
1st Final Flow	
2nd Final Shut-in	
Final Hydro.	

SUBSURFACE PRESSURE MEASUREMENTS

Company:	VULCAN MINERALS INC.
Location:	FLAT BAY#2NEWFOUNDLAND
Date Of Test:	04/11/23 09:20:00
Run Depth (mCF):	725.015 MKB
Probe serial #:	20639
Probe Range:	0 - 24132 kPag
Accuracy:	0.03% full scale
Calibration Date:	04/03/03

PROGRAMMED SAMPLE INTERVALS

From	To	Primary	Fast
04/11/23 09:20	--END OF RUN--	10S	NONE

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

Recorders on bottom - 04/11/23 15:15:00

--- Primary Time: 10S Past Time: NONE ---

Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
1	04/11/23 15:15:00	0:00:00		13.16	8859.58
31	04/11/23 15:20:00	0:05:00		13.17	8883.05
61	04/11/23 15:25:00	0:10:00		13.16	707.80
91	04/11/23 15:30:00	0:15:00		13.16	636.49
121	04/11/23 15:35:00	0:20:00		13.17	608.61
151	04/11/23 15:40:00	0:25:00		13.19	645.14
181	04/11/23 15:45:00	0:30:00		13.20	675.51
211	04/11/23 15:50:00	0:35:00		13.21	700.81
241	04/11/23 15:55:00	0:40:00		13.22	723.04
271	04/11/23 16:00:00	0:45:00		13.22	743.42
301	04/11/23 16:05:00	0:50:00		13.24	761.90
331	04/11/23 16:10:00	0:55:00		13.24	778.72
361	04/11/23 16:15:00	1:00:00		13.24	794.33
391	04/11/23 16:20:00	1:05:00		13.25	809.18
421	04/11/23 16:25:00	1:10:00		13.25	823.39
451	04/11/23 16:30:00	1:15:00		13.25	837.22
481	04/11/23 16:35:00	1:20:00		13.25	267.89
511	04/11/23 16:40:00	1:25:00		13.25	139.65
541	04/11/23 16:45:00	1:30:00		13.25	140.02
571	04/11/23 16:50:00	1:35:00		13.25	140.02
601	04/11/23 16:55:00	1:40:00		13.25	140.30
631	04/11/23 17:00:00	1:45:00		13.26	140.29
661	04/11/23 17:05:00	1:50:00		13.26	140.57
691	04/11/23 17:10:00	1:55:00		13.26	140.84
721	04/11/23 17:15:00	2:00:00		13.26	140.84
751	04/11/23 17:20:00	2:05:00		13.26	140.84
781	04/11/23 17:25:00	2:10:00		13.26	140.84
811	04/11/23 17:30:00	2:15:00		13.27	140.93
841	04/11/23 17:35:00	2:20:00		13.27	141.02
871	04/11/23 17:40:00	2:25:00		13.27	124.19
901	04/11/23 17:45:00	2:30:00		13.27	126.62
931	04/11/23 17:50:00	2:35:00		13.27	128.86
961	04/11/23 17:55:00	2:40:00		13.28	131.56
991	04/11/23 18:00:00	2:45:00		13.28	133.71
1021	04/11/23 18:05:00	2:50:00		13.28	136.24
1051	04/11/23 18:10:00	2:55:00		13.28	138.57
1081	04/11/23 18:15:00	3:00:00		13.28	140.72
1111	04/11/23 18:20:00	3:05:00		13.28	142.78
1141	04/11/23 18:25:00	3:10:00		13.28	145.20
1171	04/11/23 18:30:00	3:15:00		13.28	147.26
1201	04/11/23 18:35:00	3:20:00		13.28	149.51
1231	04/11/23 18:40:00	3:25:00		13.28	151.75

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
1261	04/11/23 18:45:00	3:30:00		13.28	153.90
1291	04/11/23 18:50:00	3:35:00		13.28	155.77
1321	04/11/23 18:55:00	3:40:00		13.28	157.74
1351	04/11/23 19:00:00	3:45:00		13.28	159.79
1381	04/11/23 19:05:00	3:50:00		13.28	161.85
1411	04/11/23 19:10:00	3:55:00		13.27	163.63
1441	04/11/23 19:15:00	4:00:00		13.27	165.78
1471	04/11/23 19:20:00	4:05:00		13.28	167.55
1501	04/11/23 19:25:00	4:10:00		13.28	169.51
1531	04/11/23 19:30:00	4:15:00		13.28	171.10
1561	04/11/23 19:35:00	4:20:00		13.28	173.06
1591	04/11/23 19:40:00	4:25:00		13.28	174.74
1621	04/11/23 19:45:00	4:30:00		13.28	176.42
1651	04/11/23 19:50:00	4:35:00		13.28	178.01
1681	04/11/23 19:55:00	4:40:00		13.28	179.88
1711	04/11/23 20:00:00	4:45:00		13.29	181.46
1741	04/11/23 20:05:00	4:50:00		13.28	182.96
1771	04/11/23 20:10:00	4:55:00		13.29	184.83
1801	04/11/23 20:15:00	5:00:00		13.29	186.51
1831	04/11/23 20:20:00	5:05:00		13.29	188.10
1861	04/11/23 20:25:00	5:10:00		13.29	189.59
1891	04/11/23 20:30:00	5:15:00		13.29	191.18
1921	04/11/23 20:35:00	5:20:00		13.29	192.86
1951	04/11/23 20:40:00	5:25:00		13.29	194.35
1981	04/11/23 20:45:00	5:30:00		13.29	195.66
2011	04/11/23 20:50:00	5:35:00		13.29	197.16
2041	04/11/23 20:55:00	5:40:00		13.29	198.84
2071	04/11/23 21:00:00	5:45:00		13.29	200.15
2101	04/11/23 21:05:00	5:50:00		13.29	202.02
2131	04/11/23 21:10:00	5:55:00		13.29	203.23
2161	04/11/23 21:15:00	6:00:00		13.29	204.63
2191	04/11/23 21:20:00	6:05:00		13.29	206.41
2221	04/11/23 21:25:00	6:10:00		13.29	207.81
2251	04/11/23 21:30:00	6:15:00		13.29	209.31
2281	04/11/23 21:35:00	6:20:00		13.29	210.81
2311	04/11/23 21:40:00	6:25:00		13.29	212.40
2341	04/11/23 21:45:00	6:30:00		13.29	213.90
2371	04/11/23 21:50:00	6:35:00		13.29	215.39
2401	04/11/23 21:55:00	6:40:00		13.29	217.07
2431	04/11/23 22:00:00	6:45:00		13.29	218.28
2461	04/11/23 22:05:00	6:50:00		13.29	219.50
2491	04/11/23 22:10:00	6:55:00		13.29	220.99
2521	04/11/23 22:15:00	7:00:00		13.29	222.49
2551	04/11/23 22:20:00	7:05:00		13.29	224.17
2581	04/11/23 22:25:00	7:10:00		13.29	225.29
2611	04/11/23 22:30:00	7:15:00		13.29	226.60

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
2641	04/11/23 22:35:00	7:20:00		13.29	228.09
2671	04/11/23 22:40:00	7:25:00		13.29	229.41
2701	04/11/23 22:45:00	7:30:00		13.29	231.00
2731	04/11/23 22:50:00	7:35:00		13.29	232.31
2761	04/11/23 22:55:00	7:40:00		13.29	233.99
2791	04/11/23 23:00:00	7:45:00		13.29	235.30
2821	04/11/23 23:05:00	7:50:00		13.29	236.42
2851	04/11/23 23:10:00	7:55:00		13.29	237.92
2881	04/11/23 23:15:00	8:00:00		13.29	239.23
2911	04/11/23 23:20:00	8:05:00		13.29	240.81
2941	04/11/23 23:25:00	8:10:00		13.29	242.12
2971	04/11/23 23:30:00	8:15:00		13.29	243.43
3001	04/11/23 23:35:00	8:20:00		13.29	244.83
3031	04/11/23 23:40:00	8:25:00		13.28	246.34
3061	04/11/23 23:45:00	8:30:00		13.28	247.37
3091	04/11/23 23:50:00	8:35:00		13.28	248.95
3121	04/11/23 23:55:00	8:40:00		13.28	250.36
3151	04/11/24 00:00:00	8:45:00		13.28	251.86
3181	04/11/24 00:05:00	8:50:00		13.28	252.98
3211	04/11/24 00:10:00	8:55:00		13.28	254.29
3241	04/11/24 00:15:00	9:00:00		13.28	255.79
3271	04/11/24 00:20:00	9:05:00		13.27	256.92
3301	04/11/24 00:25:00	9:10:00		13.27	258.22
3331	04/11/24 00:30:00	9:15:00		13.28	259.52
3361	04/11/24 00:35:00	9:20:00		13.28	260.65
3391	04/11/24 00:40:00	9:25:00		13.28	261.96
3421	04/11/24 00:45:00	9:30:00		13.28	263.26
3451	04/11/24 00:50:00	9:35:00		13.28	264.67
3481	04/11/24 00:55:00	9:40:00		13.28	265.88
3511	04/11/24 01:00:00	9:45:00		13.28	267.09
3541	04/11/24 01:05:00	9:50:00		13.28	268.49
3571	04/11/24 01:10:00	9:55:00		13.28	269.71
3601	04/11/24 01:15:00	10:00:00		13.28	270.73
3631	04/11/24 01:20:00	10:05:00		13.28	271.76
3661	04/11/24 01:25:00	10:10:00		13.28	272.98
3691	04/11/24 01:30:00	10:15:00		13.28	274.57
3721	04/11/24 01:35:00	10:20:00		13.28	275.78
3751	04/11/24 01:40:00	10:25:00		13.29	276.89
3781	04/11/24 01:45:00	10:30:00		13.29	278.30
3811	04/11/24 01:50:00	10:35:00		13.29	279.70
3841	04/11/24 01:55:00	10:40:00		13.28	280.73
3871	04/11/24 02:00:00	10:45:00		13.28	281.95
3901	04/11/24 02:05:00	10:50:00		13.28	283.35
3931	04/11/24 02:10:00	10:55:00		13.28	284.47
3961	04/11/24 02:15:00	11:00:00		13.28	285.60
3991	04/11/24 02:20:00	11:05:00		13.29	286.99

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
4021	04/11/24 02:25:00	11:10:00		13.29	288.39
4051	04/11/24 02:30:00	11:15:00		13.29	289.42
4081	04/11/24 02:35:00	11:20:00		13.29	290.54
4111	04/11/24 02:40:00	11:25:00		13.29	291.76
4141	04/11/24 02:45:00	11:30:00		13.29	292.97
4171	04/11/24 02:50:00	11:35:00		13.29	293.72
4201	04/11/24 02:55:00	11:40:00		13.28	295.04
4231	04/11/24 03:00:00	11:45:00		13.28	296.25
4261	04/11/24 03:05:00	11:50:00		13.28	297.56
4291	04/11/24 03:10:00	11:55:00		13.28	298.96
4321	04/11/24 03:15:00	12:00:00		13.28	300.27
4351	04/11/24 03:20:00	12:05:00		13.28	301.39
4381	04/11/24 03:25:00	12:10:00		13.28	302.42
4411	04/11/24 03:30:00	12:15:00		13.28	303.82
4441	04/11/24 03:35:00	12:20:00		13.28	305.13
4471	04/11/24 03:40:00	12:25:00		13.28	306.35
4501	04/11/24 03:45:00	12:30:00		13.28	307.47
4531	04/11/24 03:50:00	12:35:00		13.28	308.68
4561	04/11/24 03:55:00	12:40:00		13.28	309.90
4591	04/11/24 04:00:00	12:45:00		13.28	310.93
4621	04/11/24 04:05:00	12:50:00		13.28	312.23
4651	04/11/24 04:10:00	12:55:00		13.29	313.16
4681	04/11/24 04:15:00	13:00:00		13.29	314.47
4711	04/11/24 04:20:00	13:05:00		13.29	315.78
4741	04/11/24 04:25:00	13:10:00		13.29	316.90
4771	04/11/24 04:30:00	13:15:00		13.29	318.01
4801	04/11/24 04:35:00	13:20:00		13.29	319.14
4831	04/11/24 04:40:00	13:25:00		13.29	320.16
4861	04/11/24 04:45:00	13:30:00		13.30	321.37
4891	04/11/24 04:50:00	13:35:00		13.29	322.41
4921	04/11/24 04:55:00	13:40:00		13.30	323.61
4951	04/11/24 05:00:00	13:45:00		13.30	324.74
4981	04/11/24 05:05:00	13:50:00		13.29	325.77
5011	04/11/24 05:10:00	13:55:00		13.29	327.27
5041	04/11/24 05:15:00	14:00:00		13.29	328.58
5071	04/11/24 05:20:00	14:05:00		13.29	329.60
5101	04/11/24 05:25:00	14:10:00		13.29	330.82
5131	04/11/24 05:30:00	14:15:00		13.29	332.03
5161	04/11/24 05:35:00	14:20:00		13.29	333.16
5191	04/11/24 05:40:00	14:25:00		13.29	334.56
5221	04/11/24 05:45:00	14:30:00		13.29	335.49
5251	04/11/24 05:50:00	14:35:00		13.29	336.80
5281	04/11/24 05:55:00	14:40:00		13.29	338.20
5311	04/11/24 06:00:00	14:45:00		13.29	339.14
5341	04/11/24 06:05:00	14:50:00		13.29	340.36
5371	04/11/24 06:10:00	14:55:00		13.29	341.48

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

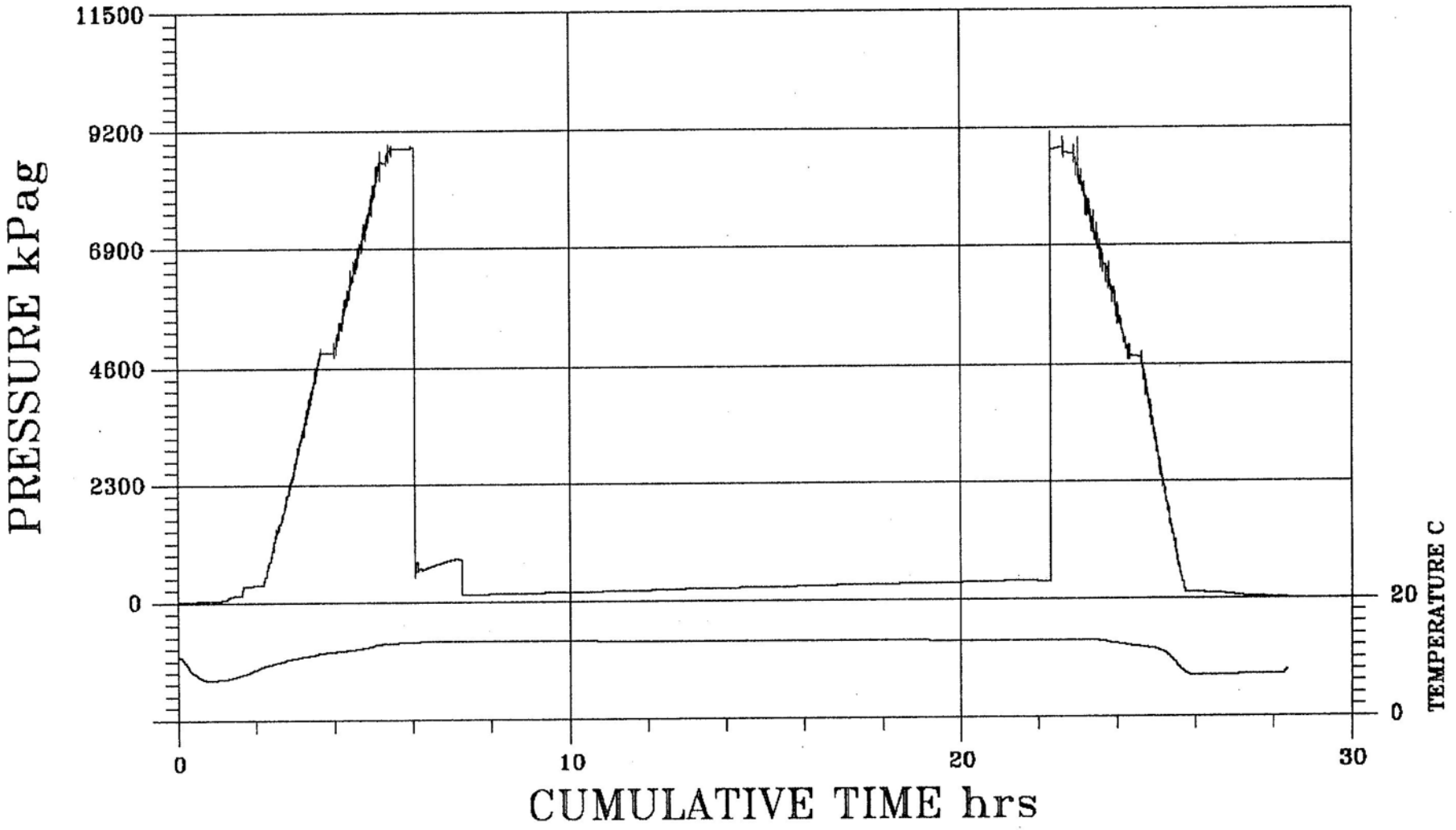
Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
5401	04/11/24 06:15:00	15:00:00		13.29	342.32
5431	04/11/24 06:20:00	15:05:00		13.29	343.62
5461	04/11/24 06:25:00	15:10:00		13.29	344.75
5491	04/11/24 06:30:00	15:15:00		13.29	346.06
5521	04/11/24 06:35:00	15:20:00		13.29	347.37
5551	04/11/24 06:40:00	15:25:00		13.29	348.77
5581	04/11/24 06:45:00	15:30:00		13.28	349.90
5611	04/11/24 06:50:00	15:35:00		13.28	350.74
5641	04/11/24 06:55:00	15:40:00		13.28	352.06
5671	04/11/24 07:00:00	15:45:00		13.28	353.45
5701	04/11/24 07:05:00	15:50:00		13.28	354.76
5731	04/11/24 07:10:00	15:55:00		13.28	355.89
5761	04/11/24 07:15:00	16:00:00		13.28	356.73
5791	04/11/24 07:20:00	16:05:00		13.28	358.23
5821	04/11/24 07:25:00	16:10:00		13.28	358.98
5851	04/11/24 07:30:00	16:15:00		13.28	360.29
5881	04/11/24 07:35:00	16:20:00		13.28	361.88
5911	04/11/24 07:40:00	16:25:00		13.38	8789.96
5941	04/11/24 07:45:00	16:30:00		13.39	8788.52
5971	04/11/24 07:50:00	16:35:00		13.36	8792.62
6001	04/11/24 07:55:00	16:40:00		13.33	8821.41
6031	04/11/24 08:00:00	16:45:00		13.31	8708.40

Recorders off bottom - 04/11/24 08:00:00

VULCAN MINERALS INC.

FLAT BAY # 2 (NEWFOUNDLAND)

Probe: 20639
Pressure vs Time
By HOLLAND TESTERS LTD.



SUBSURFACE PRESSURE MEASUREMENTS

Company:	VULCAN MINERALS INC.
Location:	FLAT BAY#2NEWFOUNDLAND
Date Of Test:	04/11/23 08:41:00
Run Depth (mCF):	737.51 MKB
Probe serial #:	20641
Probe Range:	0 - 24132 kPag
Accuracy:	0.03% full scale
Calibration Date:	04/03/03

PROGRAMMED SAMPLE INTERVALS

From	To	Primary	Fast
04/11/23 08:41	--END OF RUN--	10S	NONE

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

Recorders on bottom - 04/11/23 15:15:00

--- Primary Time: 10S Fast Time: NONE ---

Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
1	04/11/23 15:15:00	0:00:00		13.00	9005.58
31	04/11/23 15:20:00	0:05:00		13.02	9021.17
61	04/11/23 15:25:00	0:10:00		13.03	839.76
91	04/11/23 15:30:00	0:15:00		12.99	770.49
121	04/11/23 15:35:00	0:20:00		12.88	745.58
151	04/11/23 15:40:00	0:25:00		12.76	781.66
181	04/11/23 15:45:00	0:30:00		12.74	811.37
211	04/11/23 15:50:00	0:35:00		12.74	836.75
241	04/11/23 15:55:00	0:40:00		12.75	858.89
271	04/11/23 16:00:00	0:45:00		12.76	879.76
301	04/11/23 16:05:00	0:50:00		12.76	898.79
331	04/11/23 16:10:00	0:55:00		12.77	915.52
361	04/11/23 16:15:00	1:00:00		12.78	931.50
391	04/11/23 16:20:00	1:05:00		12.78	946.21
421	04/11/23 16:25:00	1:10:00		12.79	960.63
451	04/11/23 16:30:00	1:15:00		12.80	974.69
481	04/11/23 16:35:00	1:20:00		12.80	939.30
511	04/11/23 16:40:00	1:25:00		12.79	276.24
541	04/11/23 16:45:00	1:30:00		12.79	276.33
571	04/11/23 16:50:00	1:35:00		12.80	276.51
601	04/11/23 16:55:00	1:40:00		12.81	276.59
631	04/11/23 17:00:00	1:45:00		12.81	276.77
661	04/11/23 17:05:00	1:50:00		12.81	276.86
691	04/11/23 17:10:00	1:55:00		12.82	277.04
721	04/11/23 17:15:00	2:00:00		12.83	277.12
751	04/11/23 17:20:00	2:05:00		12.83	277.12
781	04/11/23 17:25:00	2:10:00		12.84	277.11
811	04/11/23 17:30:00	2:15:00		12.85	277.10
841	04/11/23 17:35:00	2:20:00		12.85	277.28
871	04/11/23 17:40:00	2:25:00		12.86	259.53
901	04/11/23 17:45:00	2:30:00		12.86	261.46
931	04/11/23 17:50:00	2:35:00		12.86	264.03
961	04/11/23 17:55:00	2:40:00		12.87	266.69
991	04/11/23 18:00:00	2:45:00		12.87	269.44
1021	04/11/23 18:05:00	2:50:00		12.88	271.92
1051	04/11/23 18:10:00	2:55:00		12.88	274.40
1081	04/11/23 18:15:00	3:00:00		12.88	276.51
1111	04/11/23 18:20:00	3:05:00		12.88	278.63
1141	04/11/23 18:25:00	3:10:00		12.88	280.74
1171	04/11/23 18:30:00	3:15:00		12.89	282.76
1201	04/11/23 18:35:00	3:20:00		12.90	284.86
1231	04/11/23 18:40:00	3:25:00		12.90	286.88

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
1261	04/11/23 18:45:00	3:30:00		12.90	288.82
1291	04/11/23 18:50:00	3:35:00		12.91	290.56
1321	04/11/23 18:55:00	3:40:00		12.91	292.67
1351	04/11/23 19:00:00	3:45:00		12.91	294.69
1381	04/11/23 19:05:00	3:50:00		12.91	296.53
1411	04/11/23 19:10:00	3:55:00		12.91	298.73
1441	04/11/23 19:15:00	4:00:00		12.91	300.94
1471	04/11/23 19:20:00	4:05:00		12.91	303.06
1501	04/11/23 19:25:00	4:10:00		12.92	304.80
1531	04/11/23 19:30:00	4:15:00		12.91	306.73
1561	04/11/23 19:35:00	4:20:00		12.91	308.76
1591	04/11/23 19:40:00	4:25:00		12.91	310.59
1621	04/11/23 19:45:00	4:30:00		12.92	312.43
1651	04/11/23 19:50:00	4:35:00		12.92	314.27
1681	04/11/23 19:55:00	4:40:00		12.92	315.65
1711	04/11/23 20:00:00	4:45:00		12.92	317.30
1741	04/11/23 20:05:00	4:50:00		12.92	318.86
1771	04/11/23 20:10:00	4:55:00		12.92	320.70
1801	04/11/23 20:15:00	5:00:00		12.92	321.98
1831	04/11/23 20:20:00	5:05:00		12.93	323.63
1861	04/11/23 20:25:00	5:10:00		12.93	325.56
1891	04/11/23 20:30:00	5:15:00		12.93	327.12
1921	04/11/23 20:35:00	5:20:00		12.93	328.78
1951	04/11/23 20:40:00	5:25:00		12.93	330.25
1981	04/11/23 20:45:00	5:30:00		12.93	331.90
2011	04/11/23 20:50:00	5:35:00		12.94	333.64
2041	04/11/23 20:55:00	5:40:00		12.94	335.11
2071	04/11/23 21:00:00	5:45:00		12.94	336.49
2101	04/11/23 21:05:00	5:50:00		12.94	337.78
2131	04/11/23 21:10:00	5:55:00		12.94	339.25
2161	04/11/23 21:15:00	6:00:00		12.94	340.53
2191	04/11/23 21:20:00	6:05:00		12.95	341.82
2221	04/11/23 21:25:00	6:10:00		12.95	343.10
2251	04/11/23 21:30:00	6:15:00		12.95	344.39
2281	04/11/23 21:35:00	6:20:00		12.95	345.58
2311	04/11/23 21:40:00	6:25:00		12.95	346.96
2341	04/11/23 21:45:00	6:30:00		12.95	348.43
2371	04/11/23 21:50:00	6:35:00		12.95	349.90
2401	04/11/23 21:55:00	6:40:00		12.95	351.28
2431	04/11/23 22:00:00	6:45:00		12.96	352.56
2461	04/11/23 22:05:00	6:50:00		12.96	354.12
2491	04/11/23 22:10:00	6:55:00		12.97	355.77
2521	04/11/23 22:15:00	7:00:00		12.97	357.24
2551	04/11/23 22:20:00	7:05:00		12.97	358.43
2581	04/11/23 22:25:00	7:10:00		12.98	360.27
2611	04/11/23 22:30:00	7:15:00		12.99	361.64

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
2641	04/11/23 22:35:00	7:20:00		12.99	363.01
2671	04/11/23 22:40:00	7:25:00		12.99	364.85
2701	04/11/23 22:45:00	7:30:00		12.99	366.23
2731	04/11/23 22:50:00	7:35:00		12.99	367.51
2761	04/11/23 22:55:00	7:40:00		12.99	369.08
2791	04/11/23 23:00:00	7:45:00		13.00	370.18
2821	04/11/23 23:05:00	7:50:00		13.01	371.36
2851	04/11/23 23:10:00	7:55:00		13.01	372.92
2881	04/11/23 23:15:00	8:00:00		13.01	374.02
2911	04/11/23 23:20:00	8:05:00		13.02	375.39
2941	04/11/23 23:25:00	8:10:00		13.02	376.50
2971	04/11/23 23:30:00	8:15:00		13.03	377.87
3001	04/11/23 23:35:00	8:20:00		13.03	379.24
3031	04/11/23 23:40:00	8:25:00		13.04	380.53
3061	04/11/23 23:45:00	8:30:00		13.04	381.90
3091	04/11/23 23:50:00	8:35:00		13.04	383.38
3121	04/11/23 23:55:00	8:40:00		13.04	384.48
3151	04/11/24 00:00:00	8:45:00		13.06	385.84
3181	04/11/24 00:05:00	8:50:00		13.06	387.40
3211	04/11/24 00:10:00	8:55:00		13.07	388.86
3241	04/11/24 00:15:00	9:00:00		13.06	390.06
3271	04/11/24 00:20:00	9:05:00		13.01	390.67
3301	04/11/24 00:25:00	9:10:00		12.99	391.69
3331	04/11/24 00:30:00	9:15:00		12.99	393.17
3361	04/11/24 00:35:00	9:20:00		13.00	394.17
3391	04/11/24 00:40:00	9:25:00		13.00	395.27
3421	04/11/24 00:45:00	9:30:00		13.00	396.65
3451	04/11/24 00:50:00	9:35:00		13.01	397.84
3481	04/11/24 00:55:00	9:40:00		13.01	399.30
3511	04/11/24 01:00:00	9:45:00		13.02	400.68
3541	04/11/24 01:05:00	9:50:00		13.03	401.87
3571	04/11/24 01:10:00	9:55:00		13.03	403.71
3601	04/11/24 01:15:00	10:00:00		13.03	405.08
3631	04/11/24 01:20:00	10:05:00		13.04	406.64
3661	04/11/24 01:25:00	10:10:00		13.05	407.91
3691	04/11/24 01:30:00	10:15:00		13.05	409.65
3721	04/11/24 01:35:00	10:20:00		13.05	410.94
3751	04/11/24 01:40:00	10:25:00		13.06	412.31
3781	04/11/24 01:45:00	10:30:00		13.06	413.42
3811	04/11/24 01:50:00	10:35:00		13.06	415.25
3841	04/11/24 01:55:00	10:40:00		13.07	416.53
3871	04/11/24 02:00:00	10:45:00		13.07	417.73
3901	04/11/24 02:05:00	10:50:00		13.07	419.11
3931	04/11/24 02:10:00	10:55:00		13.07	420.39
3961	04/11/24 02:15:00	11:00:00		13.07	421.68
3991	04/11/24 02:20:00	11:05:00		13.07	422.97

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
4021	04/11/24 02:25:00	11:10:00		13.07	423.89
4051	04/11/24 02:30:00	11:15:00		13.07	424.99
4081	04/11/24 02:35:00	11:20:00		13.06	426.56
4111	04/11/24 02:40:00	11:25:00		13.07	427.66
4141	04/11/24 02:45:00	11:30:00		13.06	428.68
4171	04/11/24 02:50:00	11:35:00		13.06	429.87
4201	04/11/24 02:55:00	11:40:00		13.06	430.79
4231	04/11/24 03:00:00	11:45:00		13.07	432.25
4261	04/11/24 03:05:00	11:50:00		13.07	433.08
4291	04/11/24 03:10:00	11:55:00		13.07	434.27
4321	04/11/24 03:15:00	12:00:00		13.07	435.47
4351	04/11/24 03:20:00	12:05:00		13.07	436.30
4381	04/11/24 03:25:00	12:10:00		13.07	437.31
4411	04/11/24 03:30:00	12:15:00		13.07	438.13
4441	04/11/24 03:35:00	12:20:00		13.07	438.87
4471	04/11/24 03:40:00	12:25:00		13.07	439.97
4501	04/11/24 03:45:00	12:30:00		13.07	441.17
4531	04/11/24 03:50:00	12:35:00		13.07	442.18
4561	04/11/24 03:55:00	12:40:00		13.07	443.19
4591	04/11/24 04:00:00	12:45:00		13.07	444.29
4621	04/11/24 04:05:00	12:50:00		13.07	445.67
4651	04/11/24 04:10:00	12:55:00		13.07	446.78
4681	04/11/24 04:15:00	13:00:00		13.07	447.69
4711	04/11/24 04:20:00	13:05:00		13.07	448.80
4741	04/11/24 04:25:00	13:10:00		13.07	449.99
4771	04/11/24 04:30:00	13:15:00		13.08	451.27
4801	04/11/24 04:35:00	13:20:00		13.08	452.93
4831	04/11/24 04:40:00	13:25:00		13.08	453.94
4861	04/11/24 04:45:00	13:30:00		13.08	454.86
4891	04/11/24 04:50:00	13:35:00		13.07	456.43
4921	04/11/24 04:55:00	13:40:00		13.07	457.62
4951	04/11/24 05:00:00	13:45:00		13.07	459.00
4981	04/11/24 05:05:00	13:50:00		13.07	460.29
5011	04/11/24 05:10:00	13:55:00		13.07	461.67
5041	04/11/24 05:15:00	14:00:00		13.07	462.96
5071	04/11/24 05:20:00	14:05:00		13.07	463.78
5101	04/11/24 05:25:00	14:10:00		13.07	465.44
5131	04/11/24 05:30:00	14:15:00		13.07	466.54
5161	04/11/24 05:35:00	14:20:00		13.07	467.74
5191	04/11/24 05:40:00	14:25:00		13.08	468.83
5221	04/11/24 05:45:00	14:30:00		13.08	470.12
5251	04/11/24 05:50:00	14:35:00		13.08	471.04
5281	04/11/24 05:55:00	14:40:00		13.08	472.14
5311	04/11/24 06:00:00	14:45:00		13.08	473.43
5341	04/11/24 06:05:00	14:50:00		13.08	474.44
5371	04/11/24 06:10:00	14:55:00		13.08	475.91

VULCAN MINERALS INC. (FLAT BAY#2NEWFOUNDLAND)

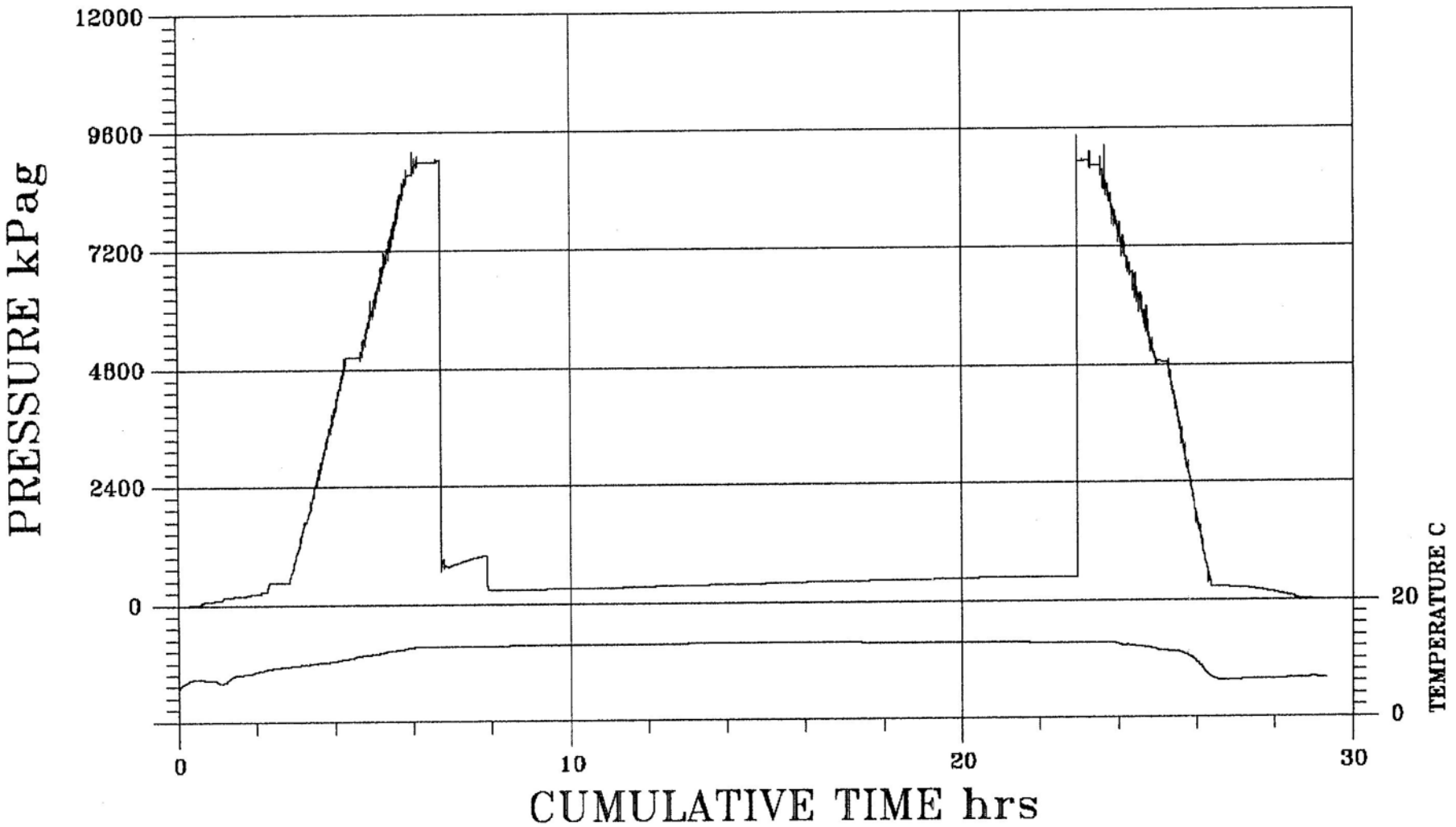
Item #	Date	Total Acc Time	Event Acc Time	Temp C	Pres kPag
5401	04/11/24 06:15:00	15:00:00		13.08	476.93
5431	04/11/24 06:20:00	15:05:00		13.08	478.03
5461	04/11/24 06:25:00	15:10:00		13.08	479.22
5491	04/11/24 06:30:00	15:15:00		13.08	480.42
5521	04/11/24 06:35:00	15:20:00		13.08	480.97
5551	04/11/24 06:40:00	15:25:00		13.08	482.17
5581	04/11/24 06:45:00	15:30:00		13.08	483.36
5611	04/11/24 06:50:00	15:35:00		13.08	484.28
5641	04/11/24 06:55:00	15:40:00		13.08	485.20
5671	04/11/24 07:00:00	15:45:00		13.07	486.31
5701	04/11/24 07:05:00	15:50:00		13.07	487.32
5731	04/11/24 07:10:00	15:55:00		13.07	488.42
5761	04/11/24 07:15:00	16:00:00		13.08	489.52
5791	04/11/24 07:20:00	16:05:00		13.08	490.26
5821	04/11/24 07:25:00	16:10:00		13.08	491.54
5851	04/11/24 07:30:00	16:15:00		13.08	492.56
5881	04/11/24 07:35:00	16:20:00		13.07	493.76
5911	04/11/24 07:40:00	16:25:00		12.99	8934.57
5941	04/11/24 07:45:00	16:30:00		12.99	8935.11
5971	04/11/24 07:50:00	16:35:00		13.02	8936.66
6001	04/11/24 07:55:00	16:40:00		13.02	8966.40
6031	04/11/24 08:00:00	16:45:00		13.00	8851.33

Recorders off bottom - 04/11/24 08:00:00

VULCAN MINERALS INC.

FLAT BAY # 2 (NEWFOUNDLAND)

Probe: 20641
Pressure vs Time
By HOLLAND TESTERS LTD.



APPENDIX J: EMPLOYEE BENEFITS SUMMARY

Flat Bay #2
Drilling Operations

	Residence		
Week #	NL	Other	Total
1	6	3	9
2	3	3	6
3	10	3	13
4	3	3	6
5	4	3	7
6	3	3	6
7	5	6	11
8	3	3	6
9	3	8	11
10	4	4	8
	44	39	
	53%	47%	

8.3 Workers on site each week on average.
4.4 Residents of the Province
3.9 Non Residents

APPENDIX K: DAILY OPERATIONAL REPORTS

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**		REPORT #: 1	DATE:	September 28, 2004
DEPTH:	5 mKB	PROGRESS: 6 m	in 6	rotating hours (last 24 hours)	
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,993	HOLE CND.:	WEATHER: clear	TOOLPUSH:	Craig Rose
CUM COST:	$3,993	RIG / RIG #:	TEMP.: 12 deg C	T.P. MOBILE:	519 983 5988
FORMATION:	Surface	K.B. ELEV.: 2.8 m	ROADS:		

AFE # 03-002 AFE $ $662,400

BIT PERFORMANCE

Bit No.	1		
Size (mm)	311		
Mfg.	Security		
Type	Insert		
Serial #	348755		
Nozzles			
From (mKB)			
To (mKB)	6		
Hrs on Bit	6		
WOB (daN)			
RPM	30		
Condition			
Pulled For?			
Meters	6		
m/hr	1.0		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	#1	#2
Make	G A	G A
Model		
Liner X Stk		
SPM		
Pump Eff.	90%	90%
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks		m3
Hole Volume	0	m3
System Vol.	0	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit, Stabilizer

BHA Length:	Hook Load:	daN DP size:
Avail WOB:	Jts DP Racks	DC Conn:
Jts DP in hole:	DP on Loc:	DP Conn:

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	3	Survey		Move Rig	
Drill Actual	6	Logging		Fishing	
Reaming	2	Run Casing	1	Direct. Drill	
Coring		Cementing		Rathole	
Rm Rathole		WOC		Safety Meeting	
Cond / Circ		NU BOP's		Mix mud	
Tripping		Test BOPs			
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : September 27, 2004 (0000 hrs-2400 hrs)

Completed preperations to drill conducter hole. Held safety meeting prior to drilling. Made up 311mm tricone insert bit and drilled to 4 m using air. Rocks and sand falling in hole. Pull out and make up 215mm bit and air drill pilot hole to 8 m.(red shale/sand). Pull out and run in with 311mm bit and drill to 6 m. Pull out and run 340mm casing to 5 m. Shovel fill in hole around casing. Weld on 7" line to divert cuttings away from hole.

Planned operations for Sept 28: Drill conducter hole into bedrock.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**			REPORT #:	2	DATE:	September 29, 2004
DEPTH:	37.5 mKB	PROGRESS:	33 m in	6	rotating hours (last 24 hours)		
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,895	HOLE CND.:	GOOD	WEATHER:	Clear	TOOLPUSH:	Craig Rose
CUM COST:	$5,888	RIG / RIG #:		TEMP.:	10 deg C	T.P. MOBILE:	519 983 5988
FORMATION:	Surface	K.B. ELEV.:	2.8 m	ROADS:			

AFE # 03-002 AFE $ $662,400

BIT PERFORMANCE

Bit No.	1
Size (mm)	311
Mfg.	Security
Type	Insert
Serial #	348755
Nozzles	
From (mKB)	
To (mKB)	37.5
Hrs on Bit	12
WOB (daN)	
RPM	30
Condition	
Pulled For?	
Meters	37.5
m/hr	3.1
Cum Hrs	

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	
Make	
Model	
Liner X Stk	
SPM	
Pump Eff.	
Pump Rate	m3/min
Pump Press.	kPa
Drillpipe AV	m/min
Drillcollar AV	m/min
Nozzle Vel	m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks		m3
Hole Volume	3	m3
System Vol.	3	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit, Stabilizer

BHA Length:		Hook Load:	daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	-2	DC Conn:	2 7/8 IF
Jts DP in hole:	2	DP on Loc:		DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	6	Logging		Fishing	
Reaming	4	Run Casing		Work w/Pason	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	2	Test BOPs		Weld on Bowl	
Lubricate Rig		Drill Out Cmt		BOP Drill	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : September 28, 2004 (0000 hrs-2400 hrs)

Run in hole with311 mm insert tricone bit and air drill to 37.5 m . Very fine wet sand causing blooy line to plug. Worked pipe and continued Drilling to 37.5 m. Fine sand to TD. Pulled out of hole.

Planner operations for Sept 29: Continue drilling into bedrock.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**			REPORT #:	3	DATE:	September 30, 2004
DEPTH:	37.5 mKB	PROGRESS:	in	rotating hours (last 24 hours)			
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,540	HOLE CND.:	cavings	WEATHER:	Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$9,428	RIG / RIG #:		TEMP.:	10 deg C	T.P. MOBILE:	519 983 5988
FORMATION:	Surface	K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #	03-002	AFE $	$662,400

BIT PERFORMANCE

Bit No.	1		
Size (mm)	311		
Mfg.	Security		
Type	Insert		
Serial #	348755		
Nozzles			
From (mKB)			
To (mKB)	37.5		
Hrs on Bit	12		
WOB (daN)			
RPM	30		
Condition			
Pulled For?			
Meters	37.5		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.		
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.	6,000	kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks		m3
Hole Volume	3	m3
System Vol.	3	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:		Hook Load:	16,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	128	DC Conn:	2 7/8 IF
Jts DP in hole:	2	DP on Loc:	130	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	3	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming	2	Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	1/2	Test BOPs		Bop Drill	
Lubricate Rig	1/2	Drill Out Cmt		WO PUMPS/TAN	6
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : September 29, 2004 (0000 hrs-2400 hrs)

Run in hole. 10' Fill on bottom. Pipe stuck while reaming back to bottom. 30,000 over pull to free pipe. Decided to drill with gel water.@ 10:00 hrs Wait on pump, tanks and gel. Rig up up hoses for pump and tanks. Tanks arrived @16:00 hrs . Place tanks in position @ 18:00 hrs. Pump arrived @ 19:00 hrs. Fill water w/water from pond. Welding on mud tank and painting same.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**	REPORT #:	4	DATE:	October 1, 2004
DEPTH:	37.5 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:	Installing Pump drive.	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,605	HOLE CND.:	GOOD	WEATHER:	Over Cast
CUM COST:	$11,033	RIG / RIG #:		TEMP.:	10 deg C
FORMATION:	MANNVILLE	K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	311		
Mfg.	Security		
Type	Insert		
Serial #	348755		
Nozzles			
From (mKB)			
To (mKB)	37.5		
Hrs on Bit	12		
WOB (daN)			
RPM	30		
Condition			
Pulled For?			
Meters	37.5		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.		
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks		m3
Hole Volume	3	m3
System Vol.	3	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:		Hook Load:	16,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	128	DC Conn:	2 7/8 IF
Jts DP in hole:	2	DP on Loc:	130	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : September 30, 2004 (0000 hrs-2400 hrs)

Place temp mud tanks,tie in same and fill with water while waiting on gel. Complete welding and painting on mud tanks spot in position next to drill floor.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**			REPORT #:	5	DATE:	October 2, 2004
DEPTH:	48.76 mKB	PROGRESS:	11 m in	2	rotating hours (last 24 hours)		
OPER 06:00:	Installing Pump drive.			FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,460	HOLE CND.:	GOOD	WEATHER:	Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$12,493	RIG / RIG #:		TEMP.:	11 deg C	T.P. MOBILE:	519 983 5988
FORMATION:	MANNVILLE	K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #	03-002	AFE $	$662,400

BIT PERFORMANCE

Bit No.	1
Size (mm)	311
Mfg.	Security
Type	Insert
Serial #	348755
Nozzles	
From (mKB)	
To (mKB)	48.76
Hrs on Bit	12
WOB (daN)	
RPM	30
Condition	
Pulled For?	
Meters	48.76
m/hr	4.1
Cum Hrs	

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.		
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	50	m3
Hole Volume	4	m3
System Vol.	54	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:		Hook Load:	16,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	128	DC Conn:	2 7/8 IF
Jts DP in hole:	2	DP on Loc:	130	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	2	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	1
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Repair pump	1
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 1, 2004 (0000 hrs-2400 hrs)

Mix gel in temp tanks to 10:30 hrs. Run in hole staging in and circulating as required while displacing to gel water. 2-3 m of fill on bottom. Drilled ahead f/ 37.5 to 40m. Pulled back & repaired washed line on mud pump. Ran in hole and reamed back to bottom. Drilled ahead f/40 - 48.8m. Formation hard. Circ bottoms up and pull out of hole to inspect bit.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**	REPORT #:	6	DATE:	October 3, 2004
DEPTH:	57.3 mKB	PROGRESS:	9 m in	2	rotating hours (last 24 hours)
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,360	HOLE CND.:	GOOD	WEATHER:	Clear
CUM COST:	$13,853	RIG / RIG #:		TEMP.:	12 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	311		
Mfg.	Security		
Type	Insert		
Serial #	348755		
Nozzles			
From (mKB)			
To (mKB)	57.3		
Hrs on Bit	12		
WOB (daN)			
RPM	30		
Condition			
Pulled For?			
Meters	57.3		
m/hr	4.8		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	TSM	
Model	500	
Liner X Stk	140 X 406	
SPM	65	
Pump Eff.	90%	
Pump Rate	1.42	m3/min
Pump Press.	6,000	kPa
Drillpipe AV	22	m/min
Drillcollar AV	24	m/min
Nozzle Vel	62	m/sec

MUD & CHEMICALS

Mud Cycle	38	min
Bottoms Up	3	min
Tanks	50	m3
Hole Volume	4	m3
System Vol.	54	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc:	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	2	Logging		Fishing	
Reaming	3	Run Casing	2	Direct. Drill	
Coring		Cementing	1	Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	3	NU BOP's		Safety meet	
Tripping	1	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 2, 2004 (0000 hrs-2400 hrs)

Run in hole with same bit to 48.8 m. Drill to 57.3 m.using gel water.Formation hard since 40 m. Circulate to 1200 hrs. Pull out of hole. Held safety meeting and riged up to run casing. Run shoe, 8 joints 9 5/8 casing to 46.9 m.Stick up 7.95 m Unable to pass. Attempted to circ and rotate casing down. Circulate to 1600 hrs.Wating delivery of cement. Pumped prelush 1 m3 H20 , 3 m3 class A cement 15.2 ppg. 3.7 ton, 100 % excess and displaced with 1.25 m3 H2o.Cement returns to surface.Clean up, shut down operations and wait on cement.Conducter shoe @ 46.9 m.mkB
Security on site overnight.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**			REPORT #:	7	DATE:	October 4, 2004
DEPTH:	46.9 mKB	PROGRESS:	-10 m in	rotating hours (last 24 hours)			
OPER 06:00:	Installing Pump drive.			FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,110	HOLE CND.:	GOOD	WEATHER:	Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$14,963	RIG / RIG #:		TEMP.:	12 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #	03-002	AFE $	$662,400

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr			
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	50	m3
Hole Volume		m3
System Vol.	50	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:		Hook Load:	16,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	128	DC Conn:	2 7/8 IF
Jts DP in hole:	2	DP on Loc:	130	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC	12	Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 3, 2004 (0000 hrs-2400 hrs)

Wait on cement.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**	REPORT #:	8	DATE:	October 5, 2004
DEPTH:	46.9 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:	Installing Pump drive.	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,505	HOLE CND.:	GOOD	WEATHER:	Clear
CUM COST:	$16,468	RIG / RIG #:		TEMP.:	12 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD
		AFE #	03-002	AFE $	$662,400

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr			
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks		m3
Hole Volume		m3
System Vol.		m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc:	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	12	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools	str	Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 4, 2004 (0000 hrs-2400 hrs)

Pull 13 3/8 casing. Cut 9 5/8 casing and weld on flange. Nipple up diverter and rotating head. Spot accumlator building and string hoses.Rig up h2s alarms and string hoses. Start riging divertor line.Assemble PVT's.

Security on site overnight

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**		REPORT #: 9	DATE:	October 6, 2004
DEPTH:	46.9 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,380	HOLE CND.: GOOD	WEATHER: Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$18,848	RIG / RIG #:	TEMP.: 10 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS: GOOD		
			AFE #	AFE $	

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr			
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks		m3
Hole Volume		m3
System Vol.		m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc:	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	12	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 5, 2004 (0000 hrs-2400 hrs)

Weld on flanges to flow line and blooey line. Weld 2" suction in mud tank. Install stillwell in mud tank for PVT and assemble. Hook up hyd lines to divertor. Generator and light tower on site.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**	REPORT #:	10	DATE:	October 7, 2004
DEPTH:	46.9 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,030	HOLE CND.:	GOOD	WEATHER:	Over Cast
CUM COST:	$20,878	RIG / RIG #:		TEMP.:	2 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr			
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks		m3
Hole Volume		m3
System Vol.		m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc:	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	12	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 6, 2004 (0000 hrs-2400 hrs)

Complete welding on blooey line and flow line. Install sample catcher on blooey line. Install base for trip tank. Weld on flange for 6' valve on mud tank. Weld handrails. Hook up power to accm unit and doghouse. Work on programming PVT system

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2A**		REPORT #: 11	DATE:	October 8, 2004
DEPTH:	46.9 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,030	HOLE CND.: GOOD	WEATHER: Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$22,808	RIG / RIG #:	TEMP.: 8 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS: GOOD		
			AFE #	AFE $	

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr			
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks		m3
Hole Volume		m3
System Vol.		m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc:	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 7, 2004 (0000 hrs-2400 hrs)

Offload 200 bbl tank. Charge up accm unit and function test divertor.Close 8 secs. Work on programming PVT system. Install equalization valve in mud tank. Install mud mixing pump and motor. Make up blooey line for degasser (4 1/2 " casing) Fill mud settling tanks with water.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**	REPORT #:	12	DATE:	October 9, 2004
DEPTH:	50 mKB	PROGRESS:	3 m in 1	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,030	HOLE CND.:	GOOD	WEATHER:	Over Cast
CUM COST:	$27,438	RIG / RIG #:		TEMP.:	8 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	Drillmaster		
Type	Hammer		
Serial #			
Nozzles			
From (mKB)	46.9		
To (mKB)	50		
Hrs on Bit	1		
WOB (daN)			
RPM	20		
Condition			
Pulled For?			
Meters	3.1		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

Mud Daily Cost	$900
Mud Cum Cost	$2,400

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m, Hammer 1 m, Stabilizer. 7.52 m

BHA Length:	8.62	Hook Load:	daN	DP size:	114 mm
Avail WOB:		Jts DP Racks		DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:		DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual	1	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 8, 2004 (0000 hrs-2400 hrs)

Complete programing for PVT system.Complete electrical hook up of mixing pump. Complete rig inspection prior to spud. Held pre spud safety meeting with crew.Make up bit, hammer and stabilizer and run in hole to 40 m. Displaced hole to air.
Tag cement @43 m. Drilled cement and shoe F/ 43 m to 46.9 m. Drilled 216 mm hole to 50 m. Sand and gravel in returns. Pulled back to 45 m. 20,000 overpull @ shoe. Circulate. Estimate 5 gal water per minite returns. In consultation with operator, decided to drill with gel water. Wait on arrival of contractor mud pump, expected @ oct 11.

Security on site night shift. Daily checks by Craig Rose.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 13	DATE:	October 10, 2004
DEPTH:	50 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:			FOREMAN:	Bill Williams	MOBILE NO.: 709 689 9673
DAILY COST:	$1,715	HOLE CND.:	GOOD	WEATHER:	Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$31,898	RIG / RIG #:		TEMP.:	2 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	Drillmaster		
Type	Hammer		
Serial #			
Nozzles			
From (mKB)	46.9		
To (mKB)	50		
Hrs on Bit	1		
WOB (daN)			
RPM	20		
Condition			
Pulled For?			
Meters			
m/hr			
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1
Make	TSM
Model	500
Liner X Stk	140 X 406
SPM	65
Pump Eff.	90%
Pump Rate	1.42 m3/min
Pump Press.	6,000 kPa
Drillpipe AV	50 m/min
Drillcollar AV	74 m/min
Nozzle Vel	62 m/sec

MUD & CHEMICALS

Mud Cycle	37 min
Bottoms Up	1 min
Tanks	50 m3
Hole Volume	2 m3
System Vol.	52 m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m, Hammer 1 m, Stabilizer. 7.52 m

BHA Length:	Hook Load:	daN DP size:	102 mm
Avail WOB:	Jts DP Racks	DC Conn:	4 XH
Jts DP in hole: 2	DP on Loc: 130	DP Conn:	4 FH

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost	$900
Mud Cum Cost	$2,400

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 9, 2004 (0000 hrs-2400 hrs)

Wait on mud pump.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 14	DATE:	October 11, 2004
DEPTH:	50 mKB	PROGRESS: 3 m in	1	rotating hours (last 24 hours)	
OPER 06:00:			FOREMAN:	Bill Williams	MOBILE NO.: 709 689 9673
DAILY COST:	$915	HOLE CND.: GOOD	WEATHER:	Over Cast	TOOLPUSH: Craig Rose
CUM COST:	$30,068	RIG / RIG #:	TEMP.:	8 deg C	T.P. MOBILE: 519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS:	GOOD	

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	Drillmaster		
Type	Hammer		
Serial #			
Nozzles			
From (mKB)	46.9		
To (mKB)	50		
Hrs on Bit	1		
WOB (daN)			
RPM	20		
Condition			
Pulled For?			
Meters	3.1		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m, Hammer 1 m, Stabilizer. 7.52 m

BHA Length:	8.62	Hook Load:	daN	DP size:	114 mm
Avail WOB:		Jts DP Racks		DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:		DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost	$900
Mud Cum Cost	$2,400

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual	1	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 10, 2004 (0000 hrs-2400 hrs)

Wait on mud pump.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 15	DATE:	October 12, 2004
DEPTH:	50 mKB	PROGRESS: 3 m in	1	rotating hours (last 24 hours)	
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$915	HOLE CND.: GOOD	WEATHER: Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$30,068	RIG / RIG #:	TEMP.: 8 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS: GOOD		

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	Drillmaster		
Type	Hammer		
Serial #			
Nozzles			
From (mKB)	46.9		
To (mKB)	50		
Hrs on Bit	1		
WOB (daN)			
RPM	20		
Condition			
Pulled For?			
Meters	3.1		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

Mud Daily Cost	$900
Mud Cum Cost	$2,400

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m, Hammer 1 m, Stabilizer. 7.52 m

BHA Length:	8.62	Hook Load:	daN	DP size:	114 mm
Avail WOB:		Jts DP Racks		DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:		DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual	1	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 11, 2004 (0000 hrs-2400 hrs)

Wait on mud pump.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 16	DATE:	October 13, 2004
DEPTH:	50 mKB	PROGRESS: 3 m in	1	rotating hours (last 24 hours)	
OPER 06:00:			FOREMAN:	Bill Williams	MOBILE NO.: 709 689 9673
DAILY COST:	$915	HOLE CND.: GOOD	WEATHER:	Over Cast	TOOLPUSH: Craig Rose
CUM COST:	$31,898	RIG / RIG #:	TEMP.:	8 deg C	T.P. MOBILE: 519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS:	GOOD	
			AFE #		AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	Drillmaster		
Type	Hammer		
Serial #			
Nozzles			
From (mKB)	46.9		
To (mKB)	50		
Hrs on Bit	1		
WOB (daN)			
RPM	20		
Condition			
Pulled For?			
Meters	3.1		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

Mud Daily Cost	$900
Mud Cum Cost	$2,400

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m, Hammer 1 m, Stabilizer. 7.52 m

BHA Length:	8.62	Hook Load:	daN	DP size:	114 mm
Avail WOB:		Jts DP Racks		DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:		DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual	1	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 12, 2004 (0000 hrs-2400 hrs)

Wait on mud pump.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 17	DATE:	October 14, 2004
DEPTH:	50 mKB	PROGRESS: 3 m in	1	rotating hours (last 24 hours)	
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$915	HOLE CND.: GOOD	WEATHER: Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$32,813	RIG / RIG #:	TEMP.: 8 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS: GOOD		
			AFE #	AFE $	

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	Drillmaster		
Type	Hammer		
Serial #			
Nozzles			
From (mKB)	46.9		
To (mKB)	50		
Hrs on Bit	1		
WOB (daN)			
RPM	20		
Condition			
Pulled For?			
Meters	3.1		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

Mud Daily Cost	$900
Mud Cum Cost	$2,400

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m, Hammer 1 m, Stabilizer. 7.52 m

BHA Length:	8.62	Hook Load:	daN	DP size:	114 mm
Avail WOB:		Jts DP Racks		DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:		DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual	1	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 13, 2004 (0000 hrs-2400 hrs)

Wait on mud pump.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 18	DATE:	October 15, 2004
DEPTH:	50 mKB	PROGRESS: 3 m in	rotating hours (last 24 hours)		
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,315	HOLE CND.: GOOD	WEATHER: Over Cast	TOOLPUSH:	Craig Rose
CUM COST:	$34,128	RIG / RIG #:	TEMP.: 8 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS: GOOD		
			AFE #	AFE $	

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	Drillmaster		
Type	Hammer		
Serial #			
Nozzles			
From (mKB)	46.9		
To (mKB)	50		
Hrs on Bit	1		
WOB (daN)			
RPM	20		
Condition			
Pulled For?			
Meters	3.1		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

Mud Daily Cost	$900
Mud Cum Cost	$2,400

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m, Hammer 1 m, Stabilizer. 7.52 m

BHA Length:	8.62	Hook Load:	daN	DP size:	114 mm
Avail WOB:		Jts DP Racks		DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:		DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 14, 2004 (0000 hrs-2400 hrs)

Offload mud pump and casing from wellmaster. Spot pump and rig up suction and discharge lines

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 19	DATE:	October 16, 2004
DEPTH:	61.5 mKB	PROGRESS: 15 m in	5 rotating hours (last 24 hours)		
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,870	HOLE CND.: GOOD	WEATHER: Clear	TOOLPUSH:	Craig Rose
CUM COST:	$35,998	RIG / RIG #:	TEMP.: 12 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS: GOOD		
			AFE #	AFE $	

BIT PERFORMANCE

Bit No.	2		
Size (mm)	216		
Mfg.	security		
Type	insert		
Serial #			
Nozzles			
From (mKB)	50		
To (mKB)	65		
Hrs on Bit	5		
WOB (daN)			
RPM	50		
Condition			
Pulled For?			
Meters	15		
m/hr	3.0		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

Mud Daily Cost	$900
Mud Cum Cost	$2,400

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	137	DC Conn:	2 7/8 IF
Jts DP in hole:	7	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	6	Survey		Plug Back	
Drill Actual	5	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	12

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 15, 2004 (0000 hrs-2400 hrs)

Completed rigging up mud pump. Mix Gel to 80 vis. Ran in hole to 50 m. Reamed/drilled from 50 m. to 61.5 m. Pulled out to shoe.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 20	DATE:	October 17, 2004
DEPTH:	61.5 mKB	PROGRESS: 15 m in	rotating hours (last 24 hours)		
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,745	HOLE CND.: GOOD	WEATHER: Clear	TOOLPUSH:	Craig Rose
CUM COST:	$39,743	RIG / RIG #:	TEMP.: 12 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS: GOOD		

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	security		
Type	insert		
Serial #			
Nozzles			
From (mKB)	50		
To (mKB)	65		
Hrs on Bit	5		
WOB (daN)			
RPM	50		
Condition			
Pulled For?			
Meters	15		
m/hr	3.0		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	137	DC Conn:	2 7/8 IF
Jts DP in hole:	7	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost	$900
Mud Cum Cost	$2,400

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	2	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping	3	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	6

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 16, 2004 (0000 hrs-2400 hrs)

Run in hole to 65.5 m. No fill. Circulate hole clean. Pull out of hole and lay down stabilizer and bit. Run in hole open ended to 53 m. Rig up to cement. Pump .5 m3 H2o preflush and 3.75 m3 class A cement 15.3 ppg. Closing divertor and squeezeing @ 2m3 around shoe. Pull out of hole and clean up equipment to 1400 hrs. Wait on cement.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**		REPORT #: 21	DATE:	October 18, 2004
DEPTH:	61.5 mKB	PROGRESS: 15 m in	rotating hours (last 24 hours)		
OPER 06:00:			FOREMAN: Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,620	HOLE CND.: GOOD	WEATHER: Clear	TOOLPUSH:	Craig Rose
CUM COST:	$41,363	RIG / RIG #:	TEMP.: 12 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.: 2.8 m	ROADS: GOOD		
			AFE #	AFE $	

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	security		
Type	insert		
Serial #			
Nozzles			
From (mKB)	50		
To (mKB)	65		
Hrs on Bit	5		
WOB (daN)			
RPM	50		
Condition			
Pulled For?			
Meters	15		
m/hr	3.0		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

Mud Daily Cost	$900
Mud Cum Cost	$2,400

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	137	DC Conn:	2 7/8 IF
Jts DP in hole:	7	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	2	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping	3	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	6

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 17, 2004 (0000 hrs-2400 hrs)

Wait on cement

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**	REPORT #:	22	DATE:	October 19, 2004
DEPTH:	61.5 mKB	PROGRESS:	15 m in	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,695	HOLE CND.:	GOOD	WEATHER:	Clear
CUM COST:	$43,058	RIG / RIG #:		TEMP.:	12 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.	security		
Type	insert		
Serial #			
Nozzles			
From (mKB)	50		
To (mKB)	65		
Hrs on Bit	5		
WOB (daN)			
RPM	50		
Condition			
Pulled For?			
Meters	15		
m/hr	3.0		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make		
Model		
Liner X Stk		
SPM		
Pump Eff.		
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	2	m3
System Vol.	32	m3

Mud & Chemicals Added:

Mud Daily Cost	$900
Mud Cum Cost	$2,400

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	137	DC Conn:	2 7/8 IF
Jts DP in hole:	7	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	2	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1	NU BOP's		Safety meet	
Tripping	3	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	6

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 18, 2004 (0000 hrs-2400 hrs)

Run in hole to 20 m. Circulate and mix water in mud.Drill cement to 53 m. Pull up to shoe and displace hole to air. 5 to 10 gal / min water in returns. Pull out of hole and lay out bit and stabilizer. Make up 165 mm bit and stabilizer and ran in hole to 65 m. Displace hole to gel water and drill 165 mm pilot hole to 69 m. (Red claystone). Pull out of hole to shoe and flow check to 1830 hrs.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**	REPORT #:	23	DATE:	October 20, 2004
DEPTH:	125.5 mKB	PROGRESS:	79 m in 10	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,695	HOLE CND.:	GOOD	WEATHER:	Rain
CUM COST:	$44,753	RIG / RIG #:		TEMP.:	8 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD
		AFE #		AFE $	

BIT PERFORMANCE

Bit No.	2		
Size (mm)	165		
Mfg.	security		
Type	insert		
Serial #			
Nozzles			
From (mKB)	65		
To (mKB)	121		
Hrs on Bit	10		
WOB (daN)			
RPM	70		
Condition			
Pulled For?			
Meters	56		
m/hr	5.6		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	44	m/min
Drillcollar AV	44	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	78	min
Bottoms Up	3	min
Tanks	35	m3
Hole Volume	3	m3
System Vol.	38	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	129	DC Conn:	2 7/8 IF
Jts DP in hole:	15	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	10	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	1	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	11

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 19, 2004 (0000 hrs-2400 hrs)

Run in hole to 69 m. Drill 165 mm pilot hole from 69 m to 125.5 m.(Red-grey claystone). Flow check,pull out of hole to 75 m. Shut down operations for night @ 1830hrs. Wellsite supervisor on site overnight.

Planned. Drill ahead to competent formation(anhydrite??), pull out and ream hole to 216 mm.with gel water.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**			REPORT #:	24	DATE:	October 21, 2004
DEPTH:	175 mKB	PROGRESS:	50 m in	7	rotating hours (last 24 hours)		
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,140	HOLE CND.:	GOOD	WEATHER:	Rain	TOOLPUSH:	Craig Rose
CUM COST:	$46,893	RIG / RIG #:		TEMP.:	8 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.	2		
Size (mm)	165		
Mfg.	security		
Type	insert		
Serial #			
Nozzles			
From (mKB)	65		
To (mKB)	175		
Hrs on Bit	17		
WOB (daN)			
RPM	70		
Condition			
Pulled For?			
Meters	110		
m/hr	6.5		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	44	m/min
Drillcollar AV	44	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	80	min
Bottoms Up	4	min
Tanks	35	m3
Hole Volume	4	m3
System Vol.	39	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	122	DC Conn:	2 7/8 IF
Jts DP in hole:	22	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	7	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	2	NU BOP's		Safety meet	
Tripping	2	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	11

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 20, 2004 (0000 hrs-2400 hrs)

Run in hole to 125.5 m. Drill 165 mm pilot hole from 125.5 m to 155 m. Lost circulation @ 155 m, (3 m3).Mixed 2 bags sawdust and 1 bag celluflake.Regained circulation and drilled to 175 m.(Claystone with minor anhydrite) Lost circulation.Attempted to restore circulation. No success.Total losses 20 m3. Pulled out of hole to Shoe. 30,000 lbs overpull. Suspect sand/gravel falling into well from around shoe. Shut down operations for night @ 1830hrs.

Planned. Run in hole upenended, mix LCM and attempt to regain circulation.

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DAILY DRILLING REPORT

WELL:	**Flat Bay 2A**			REPORT #:	25	DATE:	October 22, 2004
DEPTH:	175 mKB	PROGRESS:	in	rotating hours (last 24 hours)			
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,140	HOLE CND.:	GOOD	WEATHER:	Sunny	TOOLPUSH:	Craig Rose
CUM COST:	$46,893	RIG / RIG #:		TEMP.:	10 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.	2		
Size (mm)	165		
Mfg.	security		
Type	insert		
Serial #			
Nozzles			
From (mKB)	65		
To (mKB)	175		
Hrs on Bit	17		
WOB (daN)			
RPM	70		
Condition			
Pulled For?			
Meters	110		
m/hr	6.5		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	44	m/min
Drillcollar AV	44	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	80	min
Bottoms Up	4	min
Tanks	35	m3
Hole Volume	4	m3
System Vol.	39	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	122	DC Conn:	2 7/8 IF
Jts DP in hole:	22	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	3	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	3
Cond / Circ	2	NU BOP's		Safety meet	
Tripping	2	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 21, 2004 (0000 hrs-2400 hrs)

Pull out of hole and layout stabilizer and bit. Run in hole opended. Unable to pass below shoe.Pull out of hole, make up 165mm bit and run in hole to shoe . Ream to 61 m.No returns. Pull up to shoe and mix LCM. Regain circulation with full returns. Pull out of hole @1500 hrs.Prepare to move rig @ 7 m West.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	26	DATE:	October 23, 2004
DEPTH:	mKB	PROGRESS:	-175 m in	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$4,090	HOLE CND.:		WEATHER:	Sunny
CUM COST:	$50,983	RIG / RIG #:		TEMP.:	10 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr	#DIV/0!		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	-48	m/min
Drillcollar AV	-48	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle		min
Bottoms Up		min
Tanks		m3
Hole Volume		m3
System Vol.		m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:		Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	122	DC Conn:	2 7/8 IF
Jts DP in hole:	22	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10 1/2	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt			
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10 1/2

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 22, 2004 (0000 hrs-2400 hrs)

Tear out rig and equipment. Installed cellar and moved rig 10 m West. Spotted buildings. Rigged up blooey line. Cleaned out mud tank. Inspected and raised derrick.

Next 24 hrs: Complete Rig up, tie in mud pump,flow line mud up and commence drilling conductor hole to @ 55 - 60 m.
Cement in prior hole.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	27	DATE:	October 24, 2004
DEPTH:	mKB	PROGRESS:	-175 m in	3	rotating hours (last 24 hours)
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,065	HOLE CND.:		WEATHER:	Sunny
CUM COST:	$53,048	RIG / RIG #:		TEMP.:	10 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	311		
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)	9.2		
Hrs on Bit	3		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	9.2		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	7	m/min
Drillcollar AV	7	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle		min
Bottoms Up		min
Tanks		m3
Hole Volume		m3
System Vol.		m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 143	DC Conn:	2 7/8 IF
Jts DP in hole: 1	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	5	Survey		Plug Back	
Drill Actual	3	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	2
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 23, 2004 (0000 hrs-2400 hrs)

Continue rig up until 1130 hrs.Drill 311 mm hole to 6 m. Install 340 mm casing. Drill 311 mm hole to 9.2 m. Water in returns. Weld on flow line returning to temporary surface tank. Fill mud tank with water. Shut down @ 1730 hrs. security on site.

Next 24 hrs: Shut down for day off.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	28	DATE:	October 25, 2004
DEPTH:	mKB	PROGRESS:	-175 m in	3	rotating hours (last 24 hours)
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,165	HOLE CND.:		WEATHER:	Sunny
CUM COST:	$55,213	RIG / RIG #:		TEMP.:	10 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	311		
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)	9.2		
Hrs on Bit	3		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	9.2		
m/hr	3.1		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	7	m/min
Drillcollar AV	7	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle		min
Bottoms Up		min
Tanks		m3
Hole Volume		m3
System Vol.		m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 143	DC Conn:	2 7/8 IF
Jts DP in hole: 1	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	5	Survey		Plug Back	
Drill Actual	3	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	2
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 24, 2004 (0000 hrs-2400 hrs)

Mix mud and clean up lease

Next 24 hrs: Drill 311 mm conductor hole

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	29	DATE:	October 26, 2004
DEPTH:	61.5 mKB	PROGRESS:	-114 m in	10	rotating hours (last 24 hours)
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,615	HOLE CND.:		WEATHER:	Sunny
CUM COST:	$57,828	RIG / RIG #:		TEMP.:	10 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	216		
Mfg.			
Type	insert		
Serial #			
Nozzles			
From (mKB)	9.2		
To (mKB)	61.5		
Hrs on Bit	12		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	52.3		
m/hr	4.4		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	18	m/min
Drillcollar AV	18	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	77	min
Bottoms Up	3	min
Tanks	35	m3
Hole Volume	2	m3
System Vol.	37	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:		Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	137	DC Conn:	2 7/8 IF
Jts DP in hole:	7	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	10	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	1	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	11

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 25, 2004 (0000 hrs-2400 hrs)

Made up 216 mm bit and stabilzer and Drilled, using gel water, 216 mm pilot hole from 9.2 m to 61.5 m(Red claystone).Pull out of hole to 1800 hrs.

Next 24 hrs: Ream 311 mm conductor hole to 65 m.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	30	DATE:	October 27, 2004
DEPTH:	61.5 mKB	PROGRESS:	-114 m in	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,965	HOLE CND.:		WEATHER:	Sunny
CUM COST:	$60,793	RIG / RIG #:		TEMP.:	10 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	1		
Size (mm)	311		
Mfg.			
Type	Tooth		
Serial #			
Nozzles			
From (mKB)	9.2		
To (mKB)	61.5		
Hrs on Bit	12		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	52.3		
m/hr	4.4		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	7	m/min
Drillcollar AV	7	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	82	min
Bottoms Up	8	min
Tanks	35	m3
Hole Volume	5	m3
System Vol.	40	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:		Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	137	DC Conn:	2 7/8 IF
Jts DP in hole:	7	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming	7	Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	1	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	8

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 26, 2004 (0000 hrs-2400 hrs)

Made up 311 mm bit and stabilzer and Reamed, using gel water, from 9.2 m to 61.5 m(Red claystone).Pull out of hole and run back in. No fill. Pull out of hole to 1530 hrs

Next 24 hrs:Wiper trip, run and cement 244 mm casing

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**			REPORT #:	31	DATE:	October 28, 2004
DEPTH:	61.5 mKB	PROGRESS:	-114 m in	rotating hours (last 24 hours)			
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$4,115	HOLE CND.:	Good	WEATHER:	Sunny	TOOLPUSH:	Craig Rose
CUM COST:	$64,908	RIG / RIG #:		TEMP.:	6 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.	1		
Size (mm)	311		
Mfg.			
Type	Tooth		
Serial #			
Nozzles			
From (mKB)	9.2		
To (mKB)	61.5		
Hrs on Bit	12		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	52.3		
m/hr	4.4		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	7	m/min
Drillcollar AV	7	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	82	min
Bottoms Up	8	min
Tanks	35	m3
Hole Volume	5	m3
System Vol.	40	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:		Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	144	DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	2	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming	1	Run Casing		Direct. Drill	
Coring		Cementing	2	Work Pipe	
Rm Rathole		WOC	4	Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	1	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 27, 2004 (0000 hrs-2400 hrs)

Ran in hole to 61 m. Circulate bottoms up. Pull out of hole and rig up to run casing.Made up shoe and run 9 joints 245 mm casing to 61 m. Pump 1 m3 H2o preflush. 2.85 m3 Class A 15.2 ppg cement (30% excess) slurry and displace with 1.7 m3 H2o.Rotate while cementing 20 rpm Cement returns at cellar @ 1330 hrs.Clean up and wait on cement.

Next 24 hrs:Run in hole with 216 mm air hammer, drill out shoe and drill ahead

Note: Oct 26 Filled abandoned well to 45 m with 2 m3 class A cement 15.2 ppg

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**			REPORT #:	32	DATE:	October 29, 2004
DEPTH:	123 mKB	PROGRESS:	62 m in	3	rotating hours (last 24 hours)		
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$1,640	HOLE CND.:	Good	WEATHER:	Sunny	TOOLPUSH:	Craig Rose
CUM COST:	$66,548	RIG / RIG #:		TEMP.:	6 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.	2		
Size (mm)	216		
Mfg.			
Type	Air insert		
Serial #			
Nozzles			
From (mKB)	61		
To (mKB)	123		
Hrs on Bit	12		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	62		
m/hr	5.2		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	18	m/min
Drillcollar AV	18	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	81	min
Bottoms Up	7	min
Tanks	35	m3
Hole Volume	5	m3
System Vol.	40	m3

Mud & Chemicals Added:

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Hammer .93 m. Stabilizer. 7.52 m

BHA Length:	8.55	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	129	DC Conn:	2 7/8 IF
Jts DP in hole:	15	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	4	Survey		Plug Back	
Drill Actual	3	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	1 1/2	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt	1	Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	9 1/2

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 28, 2004 (0000 hrs-2400 hrs)

Cut off 245 mm casing and weld on flange for diverter. Nipple up diverter and blooey line. Function test divertor.Close 5 secs. Made up 216mm bit, air hammer and stabilizer and ran in hole. Tagged cement @ 43 m. Drilled cement from 43 m to shoe @ 61 m. Drilled 216 mm hole from 61 m to 84 m. Water in returns @ 5 gal/min. Pull to shoe and rig up surface tank to pump from shale sloop. Ran in hole and drilled 216 mm hole from 84 m to 123 m.to 1530 hrs.Shut down operations for the night.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**			REPORT #:	33	DATE:	October 30, 2004
DEPTH:	164 mKB	PROGRESS:	41 m in	8	rotating hours (last 24 hours)		
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$4,080	HOLE CND.:	Good	WEATHER:	Sunny	TOOLPUSH:	Craig Rose
CUM COST:	$70,630	RIG / RIG #:		TEMP.:	6 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.	2		
Size (mm)	216		
Mfg.			
Type	Air insert		
Serial #			
Nozzles			
From (mKB)	61		
To (mKB)	123		
Hrs on Bit	12		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	62		
m/hr	5.2		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	1000
Mud Grad	10.00
Vis	60
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	18	m/min
Drillcollar AV	18	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	84	min
Bottoms Up	9	min
Tanks	35	m3
Hole Volume	6	m3
System Vol.	41	m3

Mud & Chemicals Added:

Soda ash 7

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.55	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	123	DC Conn:	2 7/8 IF
Jts DP in hole:	21	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	1	Survey		Plug Back	
Drill Actual	8	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	1 1/2	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10 1/2

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 29, 2004 (0000 hrs-2400 hrs)

Ran in hole to 123 m. Air drilled 216 mm hole from 123m to 154 m. Pulled out of hole and layed out hammer and bit. Made up 216 mm tricone and stabiizer,Made up flow line and ran in hole to shoe. Filled hole with mud. Continued running in hole to 154 m. to 1330 hrs. Drill 216 mm hole from 154 m to 164 m. to 1730 hrs.Mixed 7 bags soda ash.Full returns no losses. Pull out to shoe.Fill hole and flow check.Shut down for night.

Next 24 hrs: Drill to casing set point @ 190 m.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	34	DATE:	October 31, 2004
DEPTH:	198.7 mKB	PROGRESS:	35 m in	8	rotating hours (last 24 hours)
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,180	HOLE CND.:	Good	WEATHER:	Sunny
CUM COST:	$72,810	RIG / RIG #:		TEMP.:	6 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	2		
Size (mm)	216		
Mfg.	Security		
Type	Tricone		
Serial #			
Nozzles			
From (mKB)	61		
To (mKB)	198.7		
Hrs on Bit	12		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	137.7		
m/hr	11.5		
Cum Hrs			

SURVEYS

DRILLING FLUID

Time	
Depth(m)	
Density	1000
Mud Grad	10.00
Vis	60
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	18	m/min
Drillcollar AV	18	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	87	min
Bottoms Up	11	min
Tanks	35	m3
Hole Volume	7	m3
System Vol.	42	m3

Mud & Chemicals Added:

Soda ash 7

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.55	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	119	DC Conn:	2 7/8 IF
Jts DP in hole:	25	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	8	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping	1	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	9

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 30, 2004 (0000 hrs-2400 hrs)

Ran in hole to 164 m. Drilled 216 mm hole from 164 m.to 198.7 m.(Salt). No losses. Pull out to shoe.Fill hole and flow check.Shut down for night.@ 1700 hrs.

Next 24 hrs: Shut down for day off.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	35	DATE:	November 1, 2004
DEPTH:	198.7 mKB	PROGRESS:	35 m in	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,265	HOLE CND.:	Good	WEATHER:	Sunny
CUM COST:	$75,075	RIG / RIG #:		TEMP.:	6 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	2		
Size (mm)	216		
Mfg.	Security		
Type	Tricone		
Serial #			
Nozzles			
From (mKB)	61		
To (mKB)	198.7		
Hrs on Bit	12		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	137.7		
m/hr	11.5		
Cum Hrs			

SURVEYS

R

DRILLING FLUID

Time	
Depth(m)	
Density	1000
Mud Grad	10.00
Vis	60
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	18	m/min
Drillcollar AV	18	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	87	min
Bottoms Up	11	min
Tanks	35	m3
Hole Volume	7	m3
System Vol.	42	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.55	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	135	DC Conn:	2 7/8 IF
Jts DP in hole:	9	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : October 31, 2004 (0000 hrs-2400 hrs)

Shut down for day off.

Next 24 hrs: Run in hole to TD,circulate, pull out and run casing. Cement with Schlumbger

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	36	DATE:	November 2, 2004
DEPTH:	198.7 mKB	PROGRESS:	35 m in	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,105	HOLE CND.:	Good	WEATHER:	Rain
CUM COST:	$77,180	RIG / RIG #:		TEMP.:	8 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	2		
Size (mm)	216		
Mfg.	Security		
Type	Tricone		
Serial #			
Nozzles			
From (mKB)	61		
To (mKB)	198.7		
Hrs on Bit	12		
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters	137.7		
m/hr	11.5		
Cum Hrs			

SURVEYS

198 m 0.50 deg

DRILLING FLUID

Time	
Depth(m)	
Density	1000
Mud Grad	10.00
Vis	60
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	18	m/min
Drillcollar AV	18	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	87	min
Bottoms Up	11	min
Tanks	35	m3
Hole Volume	7	m3
System Vol.	42	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.55	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	144	DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	2	Survey	1	Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing	2	Direct. Drill	
Coring		Cementing	1	Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	3/4	NU BOP's		Safety meet	1/4
Tripping	1	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	8

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 1, 2004 (0000 hrs-2400 hrs)

Run in hole to 198.7 m,no fill.Run survey .5 deg. Pull out and lay down bit and stabilizer. Rig up to run casing. Run 10 joints 177 mm casing to 197.04 m, mKB. Held pre job safety meeting and rigged up schlumbger. Pressure tested surface lines. Pumped 2 m3 water preflush.Pump 4 m3 slurry class G 15.8 ppg 1900 kg/m3 (75% excess) 6 kg Lcm fiber, 23 kg antifoam & 230 kg salt. Displaced with 4 m3 water. Bump plug 6600 kpa @ 1407 hrs @1.5 m3 preflush returns to surface. Shut down @ 1530 hrs and wait on cement.

Next 24 hrs: Rig up and test BOP,s. Clean out tanks.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**			REPORT #:	37	DATE:	November 3, 2004
DEPTH:	198.7 mKB	PROGRESS:	35 m in	rotating hours (last 24 hours)			
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$22,225	HOLE CND.:	Good	WEATHER:	Rain	TOOLPUSH:	Craig Rose
CUM COST:	$99,405	RIG / RIG #:		TEMP.:	8 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr	#DIV/0!		
Cum Hrs			

SURVEYS

198 m	0.50 deg

DRILLING FLUID

Time	
Depth(m)	
Density	1000
Mud Grad	10.00
Vis	60
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	-48	m/min
Drillcollar AV	-48	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	72	min
Bottoms Up	-4	min
Tanks	35	m3
Hole Volume		m3
System Vol.	35	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	8.55	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	144	DC Conn:	2 7/8 IF
Jts DP in hole:		DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 2, 2004 (0000 hrs-2400 hrs)

Remove cement head, divertor and flow line. Backed out landing joint. Cut off 244 mm casing. Make up casing bowl and x/o flange. Nipple up BOP,s HCR valve and choke line to 1750 hrs.

Next 24 hrs: Complete rig up and test BOP,s and choke manifold.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**			REPORT #:	38	DATE:	November 4, 2004
DEPTH:	198.7 mKB	PROGRESS:	35 m in	rotating hours (last 24 hours)			
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,365	HOLE CND.:	Good	WEATHER:	Rain	TOOLPUSH:	Craig Rose
CUM COST:	$101,770	RIG / RIG #:		TEMP.:	8 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr	#DIV/0!		
Cum Hrs			

SURVEYS

198 m	0.50 deg

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	-48	m/min
Drillcollar AV	-48	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	72	min
Bottoms Up	-4	min
Tanks	35	m3
Hole Volume		m3
System Vol.	35	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 3, 2004 (0000 hrs-2400 hrs)

Installed choke manifold flare lines and prepared flare pit. Pumped out and cleaned mud tanks.Layed down derrick and inspect.Rigged up geolagraph unit Pressure tested choke manifold(250 psi low,1200 psi high). Pressured tested blind rams agansl surface casing(250 psi low 1000 psi high) ok.Shut down operations @ 1730 hrs.

Next 24 hrs: Complete Pressure testing BOP,s,mix brine.Inspect rig and run in hole drill out shoe and conduct PIT.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**			REPORT #:	39	DATE:	November 5, 2004
DEPTH:	198.7 mKB	PROGRESS:	35 m in	rotating hours (last 24 hours)			
OPER 06:00:				FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$2,490	HOLE CND.:	Good	WEATHER:	Rain	TOOLPUSH:	Craig Rose
CUM COST:	$104,260	RIG / RIG #:		TEMP.:	3 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr	#DIV/0!		
Cum Hrs			

SURVEYS

198 m	0.50 deg

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	60	
Pump Eff.	90%	
Pump Rate	0.49	m3/min
Pump Press.	3,500	kPa
Drillpipe AV	-48	m/min
Drillcollar AV	-48	m/min
Nozzle Vel	21	m/sec

MUD & CHEMICALS

Mud Cycle	72	min
Bottoms Up	-4	min
Tanks	35	m3
Hole Volume		m3
System Vol.	35	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Bit Sub .4 m. Stabilizer. 7.52 m

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	10	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST			
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 4, 2004 (0000 hrs-2400 hrs)

07:30 -10:00 Change out kill valve on BOPs . Spot pipe trailer to sub base.

10:00 - 14:00 Rig up & Press. Test HCR / annular / Safety Valve & kill valve on BOPs 1500 kpa Low 7000 kpa High Press. Test Pipe Rams & #10 valve on choke manifold. Preform Accumulator Test.

14:00 - 16:00 Rig in Degasser lines. Weld Geolagraph, mud tanks, stabilizer arm on rig floor & platform for for sample catching. Complete Rig Inspection prior to drilling out 177mm casing shoe.

16:00 - 17:30 Fill mud tanks & mix salt. Made up Bit & Stabilizer & Run In Hole.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	40	DATE:	November 6, 2004
DEPTH:	352 mKB	PROGRESS:	153 m in 4	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,970	HOLE CND.:	Good	WEATHER:	Cloudy
CUM COST:	$108,230	RIG / RIG #:		TEMP.:	3 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	3		
Size (mm)	165		
Mfg.	Drillmaster		
Type	Insert		
Serial #	NDo128		
Nozzles			
From (mKB)	198.7		
To (mKB)	352		
Hrs on Bit	4		
WOB (daN)	1,500		
RPM	40		
Condition			
Pulled For?			
Meters	153.3		
m/hr	38.3		
Cum Hrs			

SURVEYS

198 m 0.50 deg

DRILLING FLUID

Time	
Depth(m)	198.5
Density	1100
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	8	m3
System Vol.	38	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Hammer .95 m. Stabilizer. 7.52 m

BHA Length:	8.56	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	99	DC Conn:	2 7/8 IF
Jts DP in hole:	45	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	3 1/2	Survey		Plug Back	
Drill Actual	4	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/2
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	2
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	1080
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-04
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 5, 2004 (0000 hrs-2400 hrs)

0730 to 1100 hrs.Run in hole with air bit and hammer.Drill out wiper plug @189 m. Drill cement to shoe @ 198 m. Drill out shoe to 200 m. with air. Fill hole with brine 1100 kg/m3. Close pipe rams, HCR and kill valve. Rig up test pump to 2 " line on casing bowl. Conduct PIT. @ 198 m. Pressure bleed down from 1400 kpa, held @ 1035 kpa. 16.2 kpa/m gradient.
1100 to 1330 hrs: secure blooey lines and flare lines,Displace hole to air and cleaned up lease. Held safety meeting with all personnel prior to drilling ahead with air.
1330 to 1730 hrs:Air Drilled 165 mm hole from 200 m to 352 m.(Salt- no fluids). Pull out to 337 m.
Continues gas detection H2s & LEL at blooey line.

Note: Casing setting depth on Nov 02 report should read 197.04 m, not 97.04 m.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	41	DATE:	November 7, 2004
DEPTH:	420 mKB	PROGRESS:	68 m in	2	rotating hours (last 24 hours)
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,305	HOLE CND.:	Good	WEATHER:	Rain / Snow
CUM COST:	$111,535	RIG / RIG #:		TEMP.:	3 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	3
Size (mm)	165
Mfg.	Drillmaster
Type	Insert
Serial #	NDo128
Nozzles	
From (mKB)	198.7
To (mKB)	420
Hrs on Bit	6
WOB (daN)	1,500
RPM	40
Condition	
Pulled For?	
Meters	221.3
m/hr	36.9
Cum Hrs	6

SURVEYS

198 m 0.50 deg

DRILLING FLUID

Time	
Depth(m)	198.5
Density	1100
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	9	m3
System Vol.	39	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Hammer .95 m. Stabilizer. 7.52 m

BHA Length:	8.56	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	83	DC Conn:	2 7/8 IF
Jts DP in hole:	61	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	1/2	Survey		Plug Back	
Drill Actual	2	Logging		Fishing	7
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/2
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	1080
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-04
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 6, 2004 (0000 hrs-2400 hrs)

Held 15 min safety meeting with crew. Rigged tarp for shale sloop.Function annular preventer. Ran in hole to 352 m. No fill.
0830 - 1030 hrs, drilled 165 mm hole from 352 m to 420 m. Hammer bit failed.
1030 - 1230 Pulled out of hole. Bit broken off at hammer. 1230 hrs to 1530 hrs- make up fishing tool and run in hole to 420 m.
1530 - 1730 Latched on fish and pulled out of hole.Fish jamed in cuttings below wellhead and pulled off. Can see fish below wellhead.Close blind rams and shut down for day.

Next 24 hrs: Shut down for day off and wait on fishing magnet.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	42	DATE:	November 8, 2004
DEPTH:	420 mKB	PROGRESS:	68 m in	rotating hours (last 24 hours)	
OPER 06:00:		FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,290	HOLE CND.:	Good	WEATHER:	Cloudy
CUM COST:	$114,825	RIG / RIG #:		TEMP.:	5 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE #	AFE $

BIT PERFORMANCE

Bit No.	3
Size (mm)	165
Mfg.	Drillmaster
Type	Insert
Serial #	NDo128
Nozzles	
From (mKB)	198.7
To (mKB)	420
Hrs on Bit	6
WOB (daN)	1,500
RPM	40
Condition	
Pulled For?	
Meters	221.3
m/hr	36.9
Cum Hrs	6

SURVEYS

198 m	0.50 deg

DRILLING FLUID

Time	
Depth(m)	198.5
Density	1100
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	9	m3
System Vol.	39	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Hammer .95 m. Stabilizer. 7.52 m

BHA Length:	8.56	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	83	DC Conn:	2 7/8 IF
Jts DP in hole:	61	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	

WELL CONTROL

RSPP-SPM	
MACP(kPa)	1080
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-04
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 7, 2004 (0000 hrs-2400 hrs)

Shut down for day off. Fishing magnet arrived location 1330 hrs.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #: 43	DATE:	November 9, 2004	
DEPTH:	451 mKB	PROGRESS: 31 m in 1 rotating hours (last 24 hours)			
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$6,355	HOLE CND.:	Good	WEATHER:	Rain	TOOLPUSH:	Craig Rose
CUM COST:	$121,180	RIG / RIG #:		TEMP.:	10 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		

AFE # AFE $

BIT PERFORMANCE

Bit No.	3	4	
Size (mm)	165	165	
Mfg.	Drillmaster	Mission	
Type	Insert	Air insert	
Serial #	NDo128	B 56044	
Nozzles			
From (mKB)	198.7	420	
To (mKB)	420		
Hrs on Bit	6	1	
WOB (daN)	1,500	1,500	
RPM	40	30	
Condition	Broken		
Pulled For?	Broken		
Meters	221.3	31	
m/hr	36.9	31	
Cum Hrs	6		

SURVEYS

198 m 0.50 deg

DRILLING FLUID

Time	
Depth(m)	198.5
Density	1100
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	10	m3
System Vol.	40	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Hammer .95 m. Stabilizer. 7.52 m

BHA Length:	8.56	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	83	DC Conn:	2 7/8 IF
Jts DP in hole:	61	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	1	Logging		Fishing	7 1/2
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/4
Tripping	1 1/4	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	
MACP(kPa)	1080
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-04
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 8, 2004 (0000 hrs-2400 hrs)

Held safety meeting with crew.Made up magnet, two xo's, stabilizer and casing scraper. Ran in hole and attempted to retrieve fish.no success,fish dropped. Cleaned wellhead area with casing scraper to 1030 hrs. Pulled out of hole and layed down magnet and xo's. Made up fishing tool and ran in hole and taged fish @ 420m. Latch onto fish @ 1230 hrs. Pulled out of hole with fish to 1430 hrs. Lay out fish and tools,made up new hammer bit to 1500 hrs.Ran in hole to 420 m.
1630 - 1730 Drilled 165 mm hole from 420 m to 451 m.

Function test blind rams.

Next 24 hrs:Drill to @ 638 m. Pull out to shoe and fill with brine.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	44	DATE:	November 10, 2004
DEPTH:	638 mKB	PROGRESS:	218 m in 6 rotating hours (last 24 hours)		
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,670	HOLE CND.:	Good	WEATHER:	Cloudy	TOOLPUSH:	Craig Rose
CUM COST:	$124,850	RIG / RIG #:		TEMP.:	8 deg C	T.P. MOBILE:	519 983 5988
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.	4		
Size (mm)	165		
Mfg.	Mission		
Type	Air insert		
Serial #	B 56044		
Nozzles			
From (mKB)	420		
To (mKB)	638		
Hrs on Bit	7		
WOB (daN)	1,500		
RPM	30		
Condition			
Pulled For?			
Meters	218		
m/hr	31.1		
Cum Hrs	7		

SURVEYS

198 m	0.50 deg

DRILLING FLUID

Time	
Depth(m)	638
Density	1120
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	30	m3
Hole Volume	14	m3
System Vol.	44	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,Hammer .95 m. Stabilizer. 7.52 m

BHA Length:	8.56	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	62	DC Conn:	2 7/8 IF
Jts DP in hole:	82	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	6	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/4
Tripping	3	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	9 1/4

WELL CONTROL

RSPP-SPM	
MACP(kPa)	1050
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-04
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 9, 2004 (0000 hrs-2400 hrs)

Held safety meeting with crew. Drilled 165 mm hole from 420 m to 638 m. Clean hole and pull out to surface. Mix salt to 1120 kg/m3 and fill hole. 14 m3.brine

Function pipe rams.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	45	DATE:	November 11, 2004
DEPTH:	647 mKB	PROGRESS:	9 m in	2	rotating hours (last 24 hours)
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$5,240	HOLE CND.:	Good	WEATHER:	Cloudy/snow
CUM COST:	$130,090	RIG / RIG #:		TEMP.:	1 deg C
FORMATION:		K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	5		
Size (mm)	165		
Mfg.	Smith		
Type	F3		
Serial #			
Nozzles			
From (mKB)	638		
To (mKB)	647		
Hrs on Bit	2		
WOB (daN)	5,000		
RPM	70		
Condition			
Pulled For?			
Meters	9		
m/hr	4.5		
Cum Hrs	2		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg

DRILLING FLUID

Time	
Depth(m)	638
Density	1120
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	75	
Pump Eff.	90%	
Pump Rate	0.61	m3/min
Pump Press.	1,800	kPa
Drillpipe AV	54	m/min
Drillcollar AV	54	m/min
Nozzle Vel	27	m/sec

MUD & CHEMICALS

Mud Cycle	85	min
Bottoms Up	12	min
Tanks	38	m3
Hole Volume	14	m3
System Vol.	52	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	61	DC Conn:	2 7/8 IF
Jts DP in hole:	83	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey	3	Plug Back	
Drill Actual	2	Logging		Fishing	
Reaming	1	Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/4
Tripping	3 1/4	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	9 1/2

WELL CONTROL

RSPP-SPM	
MACP(kPa)	1050
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-04
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 10, 2004 (0000 hrs-2400 hrs)

Held safety meeting with crew. Made up tricone 165 mm bit, stabilizer and float sub.Hooked up flow line. Ran in hole to 160 m and run survey.Ran in hole to 310 m and ran survey. Ran in hole to 460 m and ran survey. Ran in hole to 610 m and ran survey. Continued running in hole to 618 m . Ream to bottom to 1430 hrs. No fill.
1430 - 1630 hrs. Drill 165 mm hole from 638 m to 647 m.
1630 - 1700 hrs. Pull out to 638 m and repair packing in swivel on top drive. Flow check 15 min-no flow. Shut down for night.
Pit volume totalizer set to alarm @ 100 litre increase. Watchman monitoring throughout night.

Function pipe rams.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	46	DATE:	November 12, 2004
DEPTH:	682 mKB	PROGRESS:	35 m in	9 1/2	rotating hours (last 24 hours)
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,515	HOLE CND.:	Good	WEATHER:	Sunny
CUM COST:	$133,605	RIG / RIG #:		TEMP.:	5 deg C
FORMATION:	Ship cove	K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	5		
Size (mm)	165		
Mfg.	Smith		
Type	F3		
Serial #			
Nozzles			
From (mKB)	638		
To (mKB)	682		
Hrs on Bit	11		
WOB (daN)	9,000		
RPM	70		
Condition			
Pulled For?			
Meters	44		
m/hr	4.0		
Cum Hrs	11		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg

DRILLING FLUID

Time	
Depth(m)	675
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	75	
Pump Eff.	90%	
Pump Rate	0.61	m3/min
Pump Press.	1,800	kPa
Drillpipe AV	54	m/min
Drillcollar AV	54	m/min
Nozzle Vel	27	m/sec

MUD & CHEMICALS

Mud Cycle	87	min
Bottoms Up	13	min
Tanks	38	m3
Hole Volume	15	m3
System Vol.	53	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	61	DC Conn:	2 7/8 IF
Jts DP in hole:	83	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	9 1/2	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1/4	NU BOP's		Safety meet	1/4
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-04
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 11, 2004 (0000 hrs-2400 hrs)

Held safety meeting with crew. Ran in to bottom and drilled 165 mm hole from 647 m to 682 m. to 1715 hrs. Circulate bottoms up and pull to 674 m.Flow check 15 min and shut down for night.
Function annular preventor.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	47	DATE:	November 13, 2004
DEPTH:	716 mKB	PROGRESS:	34 m in 9 rotating hours (last 24 hours)		
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,590	HOLE CND.:	Good	WEATHER:	Sunny	TOOLPUSH:	Craig Rose
CUM COST:	$137,195	RIG / RIG #:		TEMP.:	5 deg C	T.P. MOBILE:	519 983 5988
FORMATION:	Ship cove	K.B. ELEV.:	2.8 m	ROADS:	GOOD		

AFE # AFE $

BIT PERFORMANCE

Bit No.	5		
Size (mm)	165		
Mfg.	Smith		
Type	F3		
Serial #			
Nozzles			
From (mKB)	638		
To (mKB)	716		
Hrs on Bit	20		
WOB (daN)	9,000		
RPM	70		
Condition			
Pulled For?			
Meters	78		
m/hr	3.9		
Cum Hrs	20		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg

DRILLING FLUID

Time	
Depth(m)	700
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	75	
Pump Eff.	90%	
Pump Rate	0.61	m3/min
Pump Press.	1,800	kPa
Drillpipe AV	54	m/min
Drillcollar AV	54	m/min
Nozzle Vel	27	m/sec

MUD & CHEMICALS

Mud Cycle	88	min
Bottoms Up	13	min
Tanks	38	m3
Hole Volume	15	m3
System Vol.	53	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:		daN DP size:	114 mm
Avail WOB:		Jts DP Racks	61	DC Conn:	2 7/8 IF
Jts DP in hole:	83	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	9	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1/4	NU BOP's		Safety meet	1/4
Tripping		Test BOPs		Bop Drill	1/4
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	9 3/4

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-12
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 12, 2004 (0000 hrs-2400 hrs)

Held safety meeting with crew. Ran in to bottom and drilled 165 mm hole from 682 m to 716 m. to 1715 hrs. Circulate bottoms up and pull to 704 m.Flow check 15 min and shut down for night.
Function Pipe rams.Held BOP drill

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	48	DATE:	November 14, 2004
DEPTH:	756 mKB	PROGRESS:	40 m in 9 rotating hours (last 24 hours)		
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$4,715	HOLE CND.:	Good	WEATHER:	Sunny	TOOLPUSH:	Craig Rose
CUM COST:	$141,910	RIG / RIG #:		TEMP.:	1 deg C	T.P. MOBILE:	519 983 5988
FORMATION:	Ship cove	K.B. ELEV.:	2.8 m	ROADS:	GOOD		

AFE # AFE $

BIT PERFORMANCE

Bit No.	5		
Size (mm)	165		
Mfg.	Smith		
Type	F3		
Serial #			
Nozzles			
From (mKB)	638		
To (mKB)	756		
Hrs on Bit	29		
WOB (daN)	12,000		
RPM	70		
Condition			
Pulled For?			
Meters	118		
m/hr	4.1		
Cum Hrs	29		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg

DRILLING FLUID

Time	
Depth(m)	750
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	75	
Pump Eff.	90%	
Pump Rate	0.61	m3/min
Pump Press.	1,800	kPa
Drillpipe AV	54	m/min
Drillcollar AV	54	m/min
Nozzle Vel	27	m/sec

MUD & CHEMICALS

Mud Cycle	89	min
Bottoms Up	14	min
Tanks	38	m3
Hole Volume	16	m3
System Vol.	54	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:	18,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	46	DC Conn:	2 7/8 IF
Jts DP in hole:	98	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	9	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1/2	NU BOP's		Safety meet	1/4
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	9 3/4

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-12
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 13, 2004 (0000 hrs-2400 hrs)

Held safety meeting with crew. Ran in to bottom and drilled 165 mm hole from 716 m to 756 m. to 1645 hrs. Circulate bottoms up and pull to 740 m.Flow check 15 min and shut down for night.
Function Annular preventor.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

Next 24 hrs: Shut down for day off.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	49	DATE:	November 15, 2004
DEPTH:	756 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At	198.5 m	FOREMAN:	Bill Williams
DAILY COST:	$3,440	HOLE CND.:	Good	WEATHER:	Snow
CUM COST:	$145,350	RIG / RIG #:		TEMP.:	-1 deg C
FORMATION:	Ship cove	K.B. ELEV.:	2.8 m	ROADS:	GOOD

MOBILE NO.: 709 689 9673
TOOLPUSH: Craig Rose
T.P. MOBILE: 519 983 5988

AFE # AFE $

BIT PERFORMANCE

Bit No.	5
Size (mm)	165
Mfg.	Smith
Type	F3
Serial #	
Nozzles	
From (mKB)	638
To (mKB)	756
Hrs on Bit	29
WOB (daN)	12,000
RPM	70
Condition	
Pulled For?	
Meters	118
m/hr	4.1
Cum Hrs	29

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg

DRILLING FLUID

Time	
Depth(m)	750
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	75	
Pump Eff.	90%	
Pump Rate	0.61	m3/min
Pump Press.	1,800	kPa
Drillpipe AV	54	m/min
Drillcollar AV	54	m/min
Nozzle Vel	27	m/sec

MUD & CHEMICALS

Mud Cycle	89	min
Bottoms Up	14	min
Tanks	38	m3
Hole Volume	16	m3
System Vol.	54	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:	18,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	46	DC Conn:	2 7/8 IF
Jts DP in hole:	98	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-12
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 14, 2004 (0000 hrs-2400 hrs)

Shut down for day off.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	50	DATE:	November 16, 2004
DEPTH:	792 mKB	PROGRESS:	36 m in 8	rotating hours (last 24 hours)	
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,415	HOLE CND.:	Good	WEATHER:	Snow
CUM COST:	$148,765	RIG / RIG #:		TEMP.:	-1 deg C
FORMATION:	Ship cove	K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	5		
Size (mm)	165		
Mfg.	Smith		
Type	F3		
Serial #			
Nozzles			
From (mKB)	638		
To (mKB)	792		
Hrs on Bit	37		
WOB (daN)	12,000		
RPM	70		
Condition			
Pulled For?			
Meters	154		
m/hr	4.2		
Cum Hrs	37		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	790
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	70	
Pump Eff.	90%	
Pump Rate	0.57	m3/min
Pump Press.	1,800	kPa
Drillpipe AV	51	m/min
Drillcollar AV	51	m/min
Nozzle Vel	25	m/sec

MUD & CHEMICALS

Mud Cycle	97	min
Bottoms Up	16	min
Tanks	38	m3
Hole Volume	17	m3
System Vol.	55	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:	18,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	46	DC Conn:	2 7/8 IF
Jts DP in hole:	98	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey	1 1/4	Plug Back	
Drill Actual	8	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1/2	NU BOP's		Safety meet	1/4
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-12
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 15, 2004 (0000 hrs-2400 hrs)

Run in hole to bottom. Circulate bottoms up. Survey @ 740 m. 1.5 deg. To 0900 hrs.
Drill 165 mm hole from 756 m to 792 m to 1700 hrs.Pull out to 774 m. Circulate bottoms up, flow check and shut down for night.
Function HCR valve.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	51	DATE:	November 17, 2004
DEPTH:	823 mKB	PROGRESS:	31 m in	8	rotating hours (last 24 hours)
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$4,715	HOLE CND.:	Good	WEATHER:	Snow
CUM COST:	$153,480	RIG / RIG #:		TEMP.:	-1 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	5
Size (mm)	165
Mfg.	Smith
Type	F3
Serial #	
Nozzles	
From (mKB)	638
To (mKB)	823
Hrs on Bit	45
WOB (daN)	12,000
RPM	70
Condition	
Pulled For?	
Meters	185
m/hr	4.1
Cum Hrs	45

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	815
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	70	
Pump Eff.	90%	
Pump Rate	0.57	m3/min
Pump Press.	1,800	kPa
Drillpipe AV	51	m/min
Drillcollar AV	51	m/min
Nozzle Vel	25	m/sec

MUD & CHEMICALS

Mud Cycle	98	min
Bottoms Up	16	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:	18,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	38	DC Conn:	2 7/8 IF
Jts DP in hole:	106	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey	1 1/4	Plug Back	
Drill Actual	8	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1/2	NU BOP's		Safety meet	1/4
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-12
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 16, 2004 (0000 hrs-2400 hrs)

Held safety meeting.changed out 2" bleed off valve on Kelly line.Ran in hole to bottom to 0830 hrs.
Drilled 165 mm hole from 792 m to 823 m to 1700 hrs.Pull out to 810 m. Circulate bottoms up, flow check and shut down for night.
Function annular preventor.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	52	DATE:	November 18, 2004
DEPTH:	826 mKB	PROGRESS:	3 m in 1 rotating hours (last 24 hours)		
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,415	HOLE CND.:	Good	WEATHER:	Rain	TOOLPUSH:	Craig Rose
CUM COST:	$156,895	RIG / RIG #:		TEMP.:	5 deg C	T.P. MOBILE:	519 983 5988
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD		
				AFE #		AFE $	

BIT PERFORMANCE

Bit No.	5	6	
Size (mm)	165	165	
Mfg.	Smith	smith	
Type	F3	F3	
Serial #			
Nozzles			
From (mKB)	638	823	
To (mKB)	823	826	
Hrs on Bit	45	1	
WOB (daN)	12,000		
RPM	70		
Condition			
Pulled For?			
Meters	185		
m/hr	4.1		
Cum Hrs	45		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	825
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	11.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	70	
Pump Eff.	90%	
Pump Rate	0.57	m3/min
Pump Press.	2,200	kPa
Drillpipe AV	51	m/min
Drillcollar AV	51	m/min
Nozzle Vel	25	m/sec

MUD & CHEMICALS

Mud Cycle	98	min
Bottoms Up	16	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:	20,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	38	DC Conn:	2 7/8 IF
Jts DP in hole:	106	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	1	Logging		Fishing	
Reaming	1	Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	1/2	NU BOP's		Safety meet	1/4
Tripping	7	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	9 3/4

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	2.5
Act Hole Fill	
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 17, 2004 (0000 hrs-2400 hrs)

Held safety meeting.Circulate bottoms up,flow check and pull out of hole for bit change to 1130 hrs.BOP drill 30 secs .Made up new bit,inspect stabilizer and ran in hole to 793 m.Broke circulation every 125 m.Reamed from 793 m to 823 m.to 1600 hrs Drilled 165 mm hole from 823 m to 826 m. to 1700 hrs.Circulate bottoms up and pull out of hole to 804 m. Flow check and shut down for night @ 1720 hrs.
Function blind rams

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	53	DATE:	November 19, 2004
DEPTH:	838.2 mKB	PROGRESS:	12 m in 9 rotating hours (last 24 hours)		
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$3,715	HOLE CND.:	Good	WEATHER:	Rain
CUM COST:	$160,610	RIG / RIG #:		TEMP.:	5 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	6
Size (mm)	165
Mfg.	Smith
Type	F3
Serial #	
Nozzles	
From (mKB)	823
To (mKB)	838.2
Hrs on Bit	10
WOB (daN)	12,000
RPM	70
Condition	
Pulled For?	
Meters	15.2
m/hr	1.5
Cum Hrs	10

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	70	
Pump Eff.	90%	
Pump Rate	0.57	m3/min
Pump Press.	2,200	kPa
Drillpipe AV	51	m/min
Drillcollar AV	51	m/min
Nozzle Vel	25	m/sec

MUD & CHEMICALS

Mud Cycle	99	min
Bottoms Up	17	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:	20,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	36	DC Conn:	2 7/8 IF
Jts DP in hole:	108	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	9	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	3/4	NU BOP's		Safety meet	1/4
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 18, 2004 (0000 hrs-2400 hrs)

Held safety meeting and run in hole to 826 m.to 0750 hrs.
Drilled 165 mm hole from 826 m to 838.2 m. to 1700 hrs.Circulate bottoms up and pull out of hole to 820 m. Flow check and shut down for night @ 1730 hrs.
Function pipe rams.
Next 24 hrs: Pull out of hole and log with schlumbger.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	54	DATE:	November 20, 2004
DEPTH:	845.4 mKB	PROGRESS:	7 m in 5 rotating hours (last 24 hours)		
OPER 06:00:	Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.:	709 689 9673
DAILY COST:	$4,940	HOLE CND.:	Good	WEATHER:	Rain
CUM COST:	$165,550	RIG / RIG #:		TEMP.:	5 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

AFE # AFE $

BIT PERFORMANCE

Bit No.	6
Size (mm)	165
Mfg.	Smith
Type	F3
Serial #	
Nozzles	
From (mKB)	823
To (mKB)	845.4
Hrs on Bit	15
WOB (daN)	12,000
RPM	70
Condition	
Pulled For?	TD
Meters	22.4
m/hr	1.5
Cum Hrs	15

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	70	
Pump Eff.	90%	
Pump Rate	0.57	m3/min
Pump Press.	2,200	kPa
Drillpipe AV	51	m/min
Drillcollar AV	51	m/min
Nozzle Vel	25	m/sec

MUD & CHEMICALS

Mud Cycle	99	min
Bottoms Up	17	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:	20,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	35	DC Conn:	2 7/8 IF
Jts DP in hole:	109	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual	5	Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ	3/4	NU BOP's		Safety meet	1/4
Tripping	3	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	9

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	2.53
Act Hole Fill	2.6
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 19, 2004 (0000 hrs-2400 hrs)

Held safety meeting and run in hole to 838.2 m.to 0750 hrs.
Drilled 165 mm hole from 838.2 m to TD 845.4. m. to 1300 hrs.Circulate to 1330 hrs. Flow checked and pulled out of hole to 1630 hrs Run in hole with two joints drill pipe, flow check and shut pipe rams. Shut down for night @ 1700 hrs.
Function annular preventor.

Next 24 hrs: Log with schlumbger.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	55	DATE:	November 21, 2004
DEPTH:	845.4 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At	198.5 m	FOREMAN:	Bill Williams
DAILY COST:	$3,415	HOLE CND.:	Good	WEATHER:	Rain
CUM COST:	$168,965	RIG / RIG #:		TEMP.:	5 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

MOBILE NO.: 709 689 9673
TOOLPUSH: Craig Rose
T.P. MOBILE: 519 983 5988

AFE # AFE $

BIT PERFORMANCE

Bit No.	6		
Size (mm)	165		
Mfg.	Smith		
Type	F3		
Serial #			
Nozzles			
From (mKB)	823		
To (mKB)	845.4		
Hrs on Bit	15		
WOB (daN)	12,000		
RPM	70		
Condition			
Pulled For?	TD		
Meters	22.4		
m/hr	1.5		
Cum Hrs	15		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	70	
Pump Eff.	90%	
Pump Rate	0.57	m3/min
Pump Press.	2,200	kPa
Drillpipe AV	51	m/min
Drillcollar AV	51	m/min
Nozzle Vel	25	m/sec

MUD & CHEMICALS

Mud Cycle	99	min
Bottoms Up	17	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	8.02	Hook Load:	20,000 daN	DP size:	114 mm
Avail WOB:		Jts DP Racks	35	DC Conn:	2 7/8 IF
Jts DP in hole:	109	DP on Loc:	144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	5 3/4	Survey		Plug Back	
Drill Actual		Logging	5	Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/4
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	11

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 20, 2004 (0000 hrs-2400 hrs)

Held safety meeting. Rig up schlumberger and make up Gamma ray,newtron density,sonic,caliper,resistivity and SP logs to 1200 hrs.
Check tools to 1300 hrs and run in hole and log well to 1700 hrs.Lay out tools and rig down schlumberger to 1830 hrs.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	56	DATE:	November 22, 2004
DEPTH:	845.4 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At	198.5 m	FOREMAN:	Bill Williams
DAILY COST:	$38,540	HOLE CND.:	Good	WEATHER:	Rain
CUM COST:	$207,505	RIG / RIG #:		TEMP.:	5 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

MOBILE NO.: 709 689 9673
TOOLPUSH: Craig Rose
T.P. MOBILE: 519 983 5988

AFE # AFE $

BIT PERFORMANCE

Bit No.	6
Size (mm)	165
Mfg.	Smith
Type	F3
Serial #	
Nozzles	
From (mKB)	823
To (mKB)	845.4
Hrs on Bit	15
WOB (daN)	12,000
RPM	70
Condition	
Pulled For?	TD
Meters	22.4
m/hr	1.5
Cum Hrs	15

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	70	
Pump Eff.	90%	
Pump Rate	0.57	m3/min
Pump Press.	2,200	kPa
Drillpipe AV	51	m/min
Drillcollar AV	51	m/min
Nozzle Vel	25	m/sec

MUD & CHEMICALS

Mud Cycle	99	min
Bottoms Up	17	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

Bit .10m,.Stabilizer. 7.52 m Float sub .4 m.

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 21, 2004 (0000 hrs-2400 hrs)

Shut Down for day off.

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

Next 24 hrs: Wait on Holland Testers

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	57	DATE:	November 23, 2004
DEPTH:	845.4 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At	198.5 m	FOREMAN:	Bill Williams
DAILY COST:	$3,115	HOLE CND.:	Good	WEATHER:	Cloudy
CUM COST:	$210,620	RIG / RIG #:		TEMP.:	2 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

MOBILE NO.: 709 689 9673
TOOLPUSH: Craig Rose
T.P. MOBILE: 519 983 5988

AFE # AFE $

BIT PERFORMANCE

Bit No.	6		
Size (mm)	165		
Mfg.	Smith		
Type	F3		
Serial #			
Nozzles			
From (mKB)	823		
To (mKB)	845.4		
Hrs on Bit	15		
WOB (daN)	12,000		
RPM	70		
Condition			
Pulled For?	TD		
Meters	22.4		
m/hr	1.5		
Cum Hrs	15		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM	70	
Pump Eff.	90%	
Pump Rate	0.57	m3/min
Pump Press.	2,200	kPa
Drillpipe AV	51	m/min
Drillcollar AV	51	m/min
Nozzle Vel	25	m/sec

MUD & CHEMICALS

Mud Cycle	99	min
Bottoms Up	17	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 22, 2004 (0000 hrs-2400 hrs)

Wait on testers

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

Next 24 hrs: Make up test tools and run in hole.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #: 58	DATE:	November 24, 2004	
DEPTH:	845.4 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At 198.5 m	FOREMAN:	Bill Williams	MOBILE NO.: 709 689 9673
DAILY COST:	$3,970	HOLE CND.: Good	WEATHER:	Cloudy	TOOLPUSH: Craig Rose
CUM COST:	$214,590	RIG / RIG #:	TEMP.:	2 deg C	T.P. MOBILE: 519 983 5988
FORMATION:	Fischell's Brook	K.B. ELEV.: 2.8 m	ROADS:	GOOD	
			AFE #	AFE $	

BIT PERFORMANCE

Bit No.	6		
Size (mm)	165		
Mfg.	Smith		
Type	F3		
Serial #			
Nozzles			
From (mKB)	823		
To (mKB)	845.4		
Hrs on Bit	15		
WOB (daN)	12,000		
RPM	70		
Condition			
Pulled For?	TD		
Meters	22.4		
m/hr	1.5		
Cum Hrs	15		

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.	2,200	kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	1/2	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/4
Tripping	7	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST	2.25	PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	10

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	
Act Hole Fill	
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 23, 2004 (0000 hrs-2400 hrs)

Held safety meeting prior to making up test tools. Made up and ran in hole, bull nose, x/o ,14 joints drill pipe, x/o, Electronic recorder, mechanical recorder, perf subs and 1 packer. (Total length below packer 115.51 m.) Made up and ran in 2nd packer, packer assy, safety joint, electronic recorder, mechanical recorder, jars, ,hyd tool, bottom hole sampler, shut in tool, recorder, x/o, 2 joints drill pipe and pump out sub.(Total length above packer to pump out sub 32.16 m). Continued running in hole and taged bottom. Rigged up surface lines and manifold and pressured tested to 7000 kpa.Seated packer @ 730 m and opened hyd tool @ 1524 hrs. for 10 min. Faint air blow. 1/8 inch in bubble pail.Decreaseing to dead in 2 min.No gas to surface. Shut in for 60 min for initial shut in.Opened for valve open for 60 min.Dead throughout.No gas to surface.Shut in for final shut in @ 1734 hrs. Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

Next 24 hrs: Pull out of hole with test tools.

vulcan minerals inc

DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	59	DATE:	November 25, 2004
DEPTH:	845.4 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At	198.5 m	FOREMAN:	Bill Williams
DAILY COST:	$10,995	HOLE CND.:	Good	WEATHER:	Sunny
CUM COST:	$225,585	RIG / RIG #:		TEMP.:	2 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

MOBILE NO.: 709 689 9673
TOOLPUSH: Craig Rose
T.P. MOBILE: 519 983 5988

AFE # AFE $

BIT PERFORMANCE

Bit No.	6
Size (mm)	165
Mfg.	Smith
Type	F3
Serial #	
Nozzles	
From (mKB)	823
To (mKB)	845.4
Hrs on Bit	15
WOB (daN)	12,000
RPM	70
Condition	
Pulled For?	TD
Meters	22.4
m/hr	1.5
Cum Hrs	15

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/4
Tripping	3 3/4	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools	5 1/2	Total Hrs	9 1/2

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	8.62
Act Hole Fill	8.68
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 24, 2004 (0000 hrs-2400 hrs)

Held safety meeting. Released packer.Flow checked and began pulling out of hole with test tools.
1115 hrs began breaking down and laying out test tools to 1430 hrs.
Clean up and service tools to 1700 hrs

Watchman monitoring and recording pit volumes. PVT alarm set to 20 litre gain.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	60	DATE:	November 26, 2004
DEPTH:	845.4 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At	198.5 m	FOREMAN:	Bill Williams
DAILY COST:	$2,990	HOLE CND.:	Good	WEATHER:	Rain
CUM COST:	$228,575	RIG / RIG #:		TEMP.:	6 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

MOBILE NO.: 709 689 9673
TOOLPUSH: Craig Rose
T.P. MOBILE: 519 983 5988

AFE # AFE $

BIT PERFORMANCE

Bit No.	6
Size (mm)	165
Mfg.	Smith
Type	F3
Serial #	
Nozzles	
From (mKB)	823
To (mKB)	845.4
Hrs on Bit	15
WOB (daN)	12,000
RPM	70
Condition	
Pulled For?	TD
Meters	22.4
m/hr	1.5
Cum Hrs	15

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	38	m3
Hole Volume	18	m3
System Vol.	56	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO		Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/4
Tripping	3 3/4	Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools	5 1/2	Total Hrs	9 1/2

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	8.62
Act Hole Fill	8.68
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 25, 2004 (0000 hrs-2400 hrs)

Held safety meeting. Ran in hole to 214 m with open end drill pipe to 0900 hrs.Rig down equipment o 1430 hrs.
Pump .2 m3 water preflush, 1 m3 Class A cement 15.2 ppg, .4 m3 water, and spot cement plug 214m-184 m.
Pull out to 35 m and pump .2 m3 water,.4 m3 class A cement, and .15 m3 water, spotting plug 35 m- 18 m. Pull out of hole to 1630 hrs.
Rig released @ 1700 hrs. Nov 25.
Shut down for night

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	61	DATE:	November 27, 2004
DEPTH:	845.4 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At	198.5 m	FOREMAN:	Bill Williams
DAILY COST:	$2,990	HOLE CND.:	Good	WEATHER:	Rain
CUM COST:	$228,575	RIG / RIG #:		TEMP.:	8 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

MOBILE NO.: 709 689 9673
TOOLPUSH: Craig Rose
T.P. MOBILE: 519 983 5988

AFE # AFE $

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr	#DIV/0!		
Cum Hrs			

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	835
Density	1200
Mud Grad	11.70
Vis	
PV	
YP	
Gels	
pH	10.0
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	38	m3
Hole Volume		m3
System Vol.	38	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	9 1/4	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	1/4
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	9 1/2

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	8.62
Act Hole Fill	8.68
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 26, 2004 (0000 hrs-2400 hrs)

Tear out rig and BOP equipment to 1700 hrs.

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DAILY DRILLING REPORT

WELL:	**Flat Bay # 2**	REPORT #:	62	DATE:	November 28, 2004
DEPTH:	845.4 mKB	PROGRESS:	in	rotating hours (last 24 hours)	
OPER 06:00:		Shoe At	198.5 m	FOREMAN:	Bill Williams
DAILY COST:	$2,990	HOLE CND.:	Good	WEATHER:	Rain
CUM COST:	$228,575	RIG / RIG #:		TEMP.:	8 deg C
FORMATION:	Fischell's Brook	K.B. ELEV.:	2.8 m	ROADS:	GOOD

MOBILE NO.: 709 689 9673
TOOLPUSH: Craig Rose
T.P. MOBILE: 519 983 5988

AFE # AFE $

BIT PERFORMANCE

Bit No.			
Size (mm)			
Mfg.			
Type			
Serial #			
Nozzles			
From (mKB)			
To (mKB)			
Hrs on Bit			
WOB (daN)			
RPM			
Condition			
Pulled For?			
Meters			
m/hr	#DIV/0!		
Cum Hrs			

SURVEYS

198 m	0.50 deg
160 m	0.50 deg
300 m	0.00 deg
460 m	0.00 deg
610 m	0.00 deg
745 m	1.5 deg

DRILLING FLUID

Time	
Depth(m)	
Density	
Mud Grad	
Vis	
PV	
YP	
Gels	
pH	
WL (cc's)	
Filter Cake	
Sand (%)	
Solids (%)	
Oil (%)	
Pf/Mf	
MBT	
Cl (ppm)	
Ca (ppm)	
Mud Co.	
Mud Man	
Mud Up @	

PUMPS

Pump No.	# 1	
Make	GD	
Model	PY 7	
Liner X Stk	6 x 7	
SPM		
Pump Eff.	90%	
Pump Rate		m3/min
Pump Press.		kPa
Drillpipe AV		m/min
Drillcollar AV		m/min
Nozzle Vel		m/sec

MUD & CHEMICALS

Mud Cycle	#DIV/0!	min
Bottoms Up	#DIV/0!	min
Tanks	38	m3
Hole Volume		m3
System Vol.	38	m3

Mud & Chemicals Added:

Soda ash

BOTTOMHOLE ASSEMBLY (No., Item, OD, ID, TJ Type)

BHA Length:	Hook Load:	daN DP size:	114 mm
Avail WOB:	Jts DP Racks 144	DC Conn:	2 7/8 IF
Jts DP in hole:	DP on Loc: 144	DP Conn:	2 7/8 IF

VOLUMES M^3

Water added	
Losses	

Mud Daily Cost

Mud Cum Cost

DRILLING OPERATIONS TIME BREAKDOWN

RU / TO	8 1/2	Survey		Plug Back	
Drill Actual		Logging		Fishing	
Reaming		Run Casing		Direct. Drill	
Coring		Cementing		Work Pipe	
Rm Rathole		WOC		Mix LCM	
Cond / Circ		NU BOP's		Safety meet	
Tripping		Test BOPs		Bop Drill	
Lubricate Rig		Drill Out Cmt		Weld flow line	
Repair Rig		DST		PIT	
Slip/Cut Line		Hndle Tools		Total Hrs	8 1/2

WELL CONTROL

RSPP-SPM	700-30
MACP(kPa)	900
Calc Hole Fill	8.62
Act Hole Fill	8.68
Lst BOP Drill:	Nov-17
Daylights	
Afternoons	

SOLIDS CONTROL

Shaker Make		
Shaker Mesh		
	Desilter	Centrifuge
Vol UF (l/min)		
U.F. (kg/m3)		
O.F. (kg/m3)		
Hours/Days		

Boiler Hrs: (to 24:00)

24 HOUR SUMMARY FOR THE DATE : November 27, 2004 (0000 hrs-2400 hrs)

Tear out rig. Loaded BOP's and trailers.Installed tubing bonnet, x/o and 2" valve on wellhead and locked