

FINAL WELL REPORT

Revision:	Version 0
Operating Company:	Vulcan Minerals Inc
Well Name:	Flat Bay #5
Rig:	Ingersoll Rand RD10
Field:	Bay of St. George Basin
Location:	Western Newfoundland, Canada
Date:	20 December 2006
Revised On:	N/A

Prepared by:	Reviewed by:
Karla Metcalfe, P.Eng Vulcan Minerals	Patrick Laracy, P.Geo Vulcan Minerals
	- -
Date:	Date:



Table of Contents

1	Intr	Introduction1				
2	General Information					
3	Diff	Difficulties and Delays				
	3.1	Lost Circulation in Main Hole Section	2			
	3.2	Rig Repair During Main Hole Section	2			
4	Dril	ling Operations	3			
	4.1	Elevation	3			
	4.2	Total Depth	3			
	4.3	Important Dates and Status	3			
	4.4	Hole Sizes and Depths	3			
	4.5	Bit Records	4			
	4.6	Casing Record	4			
	4.7	Cementing Record	4			
	4.8	Sidetracted Hole	5			
	4.9	Drilling Fluid	5			
	4.10	Fluid Disposal	5			
	4.11	Well Kicks	5			
	4.12	Formation Leak-Off Tests	5			
	4.13	Time Distribution	6			
	4.14	Deviation Plot	7			
	4.15	Plug & Termination Scheme	7			
	4.16	Well Schematic	7			
	4.17	Fluid Samples	7			
	4.18	Composite Well Record	7			
5	Geo	logy	8			
	5.1	Drill Cuttings	8			
	5.2	Cores	8			
	5.3	Lithology	8			
	5.4	Stratigraphic Column	8			
	5.5	Biostratigraphic Data	8			
6	Wel	ll Evaluation	8			
	6.1	Downhole Logs	8			
	6.2	Other Logs	8			
	6.3	Synthetic Seismograms	8			
	6.4	Vertical Seismic Profiles	8			
	6.5	Velocity Surveys	8			
	6.6	Formation Stimulation	8			
	6.7	Formation Flow Tests	8			



List of Appendices

APPENDIX A: WELL LOCATION & MAP

APPENDIX B: DRILLING PROGRAM APPROVAL AND AUTHORITY TO DRILL WELL

APPENDIX C: CEMENT PROPOSALS AND REPORTS

APPENDIX D: WELL TERMINATION RECORD & WELL SCHEMATIC

APPENDIX E: COMPOSITE WELL RECORD & TIME VERSUS DEPTH CURVE

APPENDIX F: DRILL CUTTINGS DESCRIPTION & LITHOLOGY

APPENDIX G: STRATIGRAPHIC COLUMN

APPENDIX H: EMPLOYEE BENEFITS SUMMARY

APPENDIX I: DAILY OPERATIONAL REPORTS



1 Introduction

Flat Bay #5 was a well drilled by the operator, Vulcan Minerals Inc., in the Bay of St. George Basin, Newfoundland. (See map in Appendix A). The purpose of this exploration well was to explore the commercial viability of potential hydrocarbon bearing formations in an anomaly identified through the use of geological and geophysical information recognized on proposed site.

The drilling rig used was the Ingersoll Rand RD10, a single-type rig with 210-hp (156-kW) rating and a 70000-lb (31750-kg) hookload.

The 719-m from rig floor (RF) vertical well was drilled in accordance with the Drilling Program Approval #DPA2006-116-01 and Authority to Drill Well #ADW2006-116-01-02 under Permit #03-106 (see Appendix B).

The Flat Bay #5 340-mm cellar casing was set at 10mRF with 6.0-m³ of cement for a good shoe to hold back the overburden. The 311-mm hole was drilled to 54-m. Then the 244.5-mm casing was set to 52.6-m and cemented into place with cement to surface. The surface hole was air drilled with a 219.1-mm BHA to 89-mRF where water zone influx prevented the continuance of air drilling. The drilling fluid was switched to a water base mud and the section was continued with a 215.9-mm BHA to 175-m. The 178-mm casing was run to 175-mRF and cemented into place with cement returns to surface. Blow out preventers were nippled up and hi-low pressured tested against surface casing. Formation integrity test was executed at 178-m resulting in a calculated pressure gradient of 20-kPa/m. The hole was drilled with a 158.75-mm air hammer BHA to a depth of 280-mRF where water zone influx prevented the continuance of air drilling. The drilling fluid was switched to a water base brine fluid and the section was continued with a 155.6-mm BHA to 719-m. An exemption from the wireline logging requirements of Section 95(1) of the *Newfoundland and Labrador Petroleum Drilling Regulations* was given by the Department of Natural Resources and it was decided not to run the open-hole wireline logs. The well was then plugged back with three cement plugs and abandoned.

2 General Information

Well Name	Flat Bay #5	
Exploration Permit	03-106	
Drilling Program Approval	DPA 2006-116-01	
Authority to Drill Well	Vell ADW 2006-116-01-02	
NAD 27 Coordinates	N 5359952.399	
	E 386152.489	
Survey System	Differential Survey Related To C.M. 84G4148	

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



3 Difficulties and Delays

3.1 Lost Circulation in Main Hole Section

While drilling the main hole section, full lost circulation was encountered at a depth of 280-meters when the hole was switched from air to fluid. The zone was healed with the pumping of the three pills of LCM that consisted of Kwik Seal, Celluflake, Barolift, fine saw dust, soda ash, and Federal Supreme. Total volume pumped was 5-m3 and total non-productive time for this delay was 7-hours.

The hole was air drilled between the depths of 375m and 377.5m. However the well was producing water at a rate between 1100 and 1500-litres/min and the hole was again switched to fluid, at which point the well incurred lost circulation. A total of the six LCM pills were pumped. Total volume pumped was 15-m3 and total non-productive time was 34.54-hours. (Note: non-productive time included the trip time for air hammer, drilling time with air, trip time for tricone, and LCM circulation time).

3.2 Rig Repair During Main Hole Section

The Ingersoll Rand RD10 had two equipment failures while drilling Flat Bay #5. The non-productive time for both failures had no associated downhole risks.

- 1. Fuel injection pump replacement: 28.5-hrs of NPT
- 2. Top drive bearings replacement: 34-hrs of NPT



4 Drilling Operations

4.1 Elevation

Well Name	Flat Bay #5
Ground Level	68.63-m MSL
Casing Flange	Not Applicable
Rig Floor	+3.3-m from ground level

4.2 Total Depth

Well Name	Flat Bay #5
Total Drilled Depth	719-mRF
Logged Depth	N/A
Plugged-Back Depth	20-m

4.3 Important Dates and Status

Well Name	Flat Bay #5	
Rig Mobilization	16 October 2006	
Drilling Commencement	20 October 2006	
Spud	25 October 2006	
Drilling Completed	16 November 2006	
Rig Release	18 November 2006	
Well Status	Abandoned	

4.4 Hole Sizes and Depths

Well Name	Flat Bay #5
311.1-mm Hole	20-mRF
219.1-mm Hole	54-mRF
215.9-mm Hole	175-mRF
158.8-mm Hole	220-mRF
155.6-mm Hole	719-mRF



4.5 Bit Records

Flat Bay #5								
Bit Number	Size [mm]	Туре	Depth In [mRF]	Depth Out [mRF]	Meterage [m]	Hours [h]	ROP [m/h]	Pulled Condition
1	219	Air Hammer	54	90	36	2	18	Good
2	216	MW2106	90	175	85	37	2.3	Good
3	156	Reed SL51H	175	178	3	2.5	1.2	Good
4	159	Air Hammer	178	280	102	12.25	8.3	Good
3RR	156	Reed SL51H	280	366	86	27.75	3.1	TC, plugged nozzles
5	156	Smith SX30	366	375	9	10.25	0.9	Good
4RR	159	Air Hammer	375	377.5	2.5	2	1.3	Good
5RR	156	Smith SX30	377.5	581	203.5	85.5	2.4	Good
6	156	Reed SL43H	581	719	138	63	2.2	Good

4.6 Casing Record

314-mm cellar line pipe was installed at 9.1-mRF.

Well Name	Flat Bay #5			
Casing Type	Conductor	Surface		
Casing Size [mm]	244.5	177.8		
Weight [kg/m]	53.6	25.33		
Grade	J-55	H-40		
Number of Joints	9	18		
Connection Type	8Rd Short	8Rd Short		
Depth of Shoe [mRF]	52.6	175		
Casing Hanger and Seal	N/A	Casing Head Type W		

4.7 Cementing Record

Well Name	Flat Bay #5			
Casing Size [mm]	244.5	177.8		
Centralizer Spacing		As necessary		
Slurry Volume [m ³]	3.0	3.7		
Slurry Density [kg/m ³]	1820	1820		
Cement Class	А	А		
Cement Additives	1-liter per m ³ slurry Grace Adva 100	1-liter per m ³ slurry Grace Adva 100		
Cement Top [mRF]	3.3	3.3		
Cement Base [mRF]	52	175		
Basis of Top Estimate	Visual	Viewal		
[Calc/CBL]	visual	visual		

See Appendix C for cement proposals and reports.



4.8 Sidetracted Hole

Not applicable.

4.9 Drilling Fluid

The 311.1-mm conductor hole section was drilled with Federal Supreme gel water and soda ash with final properties that included mud weight of 1050-kg/m³, funnel viscosity 48-sec and 8pH.

The 219.1-mm surface hole section was drilled with air from the depth of 54-m to 89-m. The well was then switched to a fluid and the 215.9-mm surface hole section was drilled to 175-m. The gel mud was comprised of Federal Supreme gel for borehole stability, soda ash for pH properties, poly plus for viscosity, Quik-seal and sawdust for lost circulation material. The final properties included mud weight of 1050-kg/m³, funnel viscosity 50-sec and 9pH.

The 158.8-mm main hole section was drilled with air from the depth of 175-m to 220-m. The well was then switched to a fluid and the 155.6-mm main hole section was drilled to 719-m. The brine fluid was comprised of fishery salt for borehole stability in salt sections, soda ash for pH properties, poly plus for viscosity, Quik-seal and celluflake for lost circulation material. The final properties included mud weight of 1250-kg/m³, funnel viscosity 29-sec, 8pH, and salinity level of 169mS.

4.10 Fluid Disposal

Upon switching the drilling fluid from air to fluid in the main hole section of the Flat Bay #5 hole, the well encountered lost circulation that was cured prior to continuing to drill by pumping LCM pills that contained saw dust, Celluflake and Kwik Seal. The total drilling fluid lost was 20m³.

4.11 Well Kicks

Not applicable.

4.12 Formation Leak-Off Tests

Formation integrity test was executed on Flat Bay #5 at 178-m with 1020-kg/m³ mud weight to 1724-kPa that had no pressure drop during stabilization for a calculated pressure gradient of 19.7kPa/m.



4.13 Time Distribution

Operation Type	Cumulative Time [hrs]	Cumulative Time [%]
Rig Up / Tear Out	28	4.7%
Drill with Fluid	14.25	2.4%
Drill with Air	229.75	38.9%
Reaming	3	0.5%
Coring	0	0.0%
Ream Rathole	0	0.0%
Condition & Circulate Mud	11.5	1.9%
Tripping	83.75	14.2%
Mix Drilling Fluid	2	0.3%
Rig Service	72.25	12.2%
Survey	4	0.7%
Logging	0	0.0%
Run Casing	13	2.2%
Cementing	1	0.2%
Wait on Cement	17.5	3.0%
Nipple Up/Down BOPs	13	2.2%
Test BOPs	15	2.5%
Drill out Cement	7.75	1.3%
Drill Stem Test	0	0.0%
Handle Tools	1	0.2%
Plug Back	3.5	0.6%
Fishing	0	0.0%
Work Pipe	0	0.0%
Mix Lost Circulation Material	19.75	3.3%
Safety Meeting	1	0.2%
BOP Drill	1	0.2%
Clean out Tanks	0	0.0%
Shut Down for Night	0	0.0%
Waiting on Materials	2	0.3%
Waiting on Services	39	6.6%
Waiting on Orders	0	0.0%
Pressure Integrity Test / Leak Off Test	1	0.2%
Make up Wellhead	7	1.2%
Total Operational Time	591.00	100.0%
Total Non-Productive Time	143.75	24.3%



4.14 Deviation Plot

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

Depth	Deviation	Maximum Horizontal Drift	Cumulative Deviation	Measurement Tool
		(Assuming consta	nt Azimuth)	
112-m	1.00°	1.95-m	1.00°	Totco
132-m	3.00°	3.00-m	1.30°	Totco
154-m	2.75°	4.06-m	1.51°	Totco
175-m	3.50°	5.34-m	1.75°	Totco
316-m	5.00°	17.63-m	3.20°	Totco
341-m	7.50°	20.89-m	3.51°	Totco
470-m	8.75°	40.51-m	4.95°	Totco
607-m	9.50°	63.13-m	5.97°	Totco

4.15 Plug & Termination Scheme

Well Name	Flat Bay #5
Cement Plug #1	2.5-m ³ Class A 1820-kg/m ³ cement from 619-mRF to 719-mRF.
Fluid Above Plug #1	1130-kg/m ³ drilling fluid
Cement Plug #2	1-m ³ Class A 1820-kg/m ³ cement from 158-mRF to 190-mRF.
Fluid Above Plug #2	1130-kg/m ³ drilling fluid
Cement Plug #3	0.5-m ³ Class A 1820-kg/m ³ cement from 20-mRF to 35-mRF.
Fluid Above Plug #3	1130-kg/m ³ drilling fluid
Well Status	Abandoned

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 Aaron Vaughan.

5.2 Cores

Not applicable.

5.3 Lithology

See Appendix F geological report completed by Aaron Vaughan.

5.4 Stratigraphic Column

See Appendix G.

5.5 Biostratigraphic Data

Not applicable.

6 Well Evaluation

6.1 Downhole Logs

Not applicable.

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

Not applicable.



APPENDIX A: WELL LOCATION & MAP











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 Act¹, <u>Vulcen Minglals</u> <u>Inc</u>, as operator on behalf of <u>Vulcen Minglals</u> <u>Inc</u>, holding a subsisting licence, permit or lease issued pursuant to the Petroleum Regulations², namely, <u>96-105/63-10603-107</u> hereby applies for approval to conduct a drilling program using the drilling rig <u>Ingelsel</u> <u>Kand</u> <u>KD10</u> and equipment and procedures described in the detailed program dated <u>19</u> <u>September 06</u>

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

taray Date: . Signed: 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 <u>30</u> day of <u>5ept.</u>, 2007;

- This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
- Evidence of financial responsibility, as required pursuant to Section 14 of the Petroleum Drilling Regulations³, 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 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 16,2006

DPA1150a.wpd

Drilling Program Approval No. 2006-116-01

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

(Revised: Feb. 2004)

CNR 1151/96

^{&#}x27; CNR 1150/96



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

AUTHORITY TO DRILL A WELL - APPLICATION

_, as operator, Bay #5 hereby applies for Authority to Drill a Well to be known as ______ using the equipment and procedures described in the well program dated 2005 Sept., 2006. Permit, Licence or Lease to which this Program applies: 03-106 Western Newfoundland CO-ORDINATES Area UTM (NAD 27) Field/Pool: Bay , St. Georges Northing: 5359950 m Easting: 386125 m Long: Lat: Drilling Rig: Ingersoll Rand RDIO DEPTH ELEVATION Rig Type: Single Hydrawlic T.D.: 1000 m TVD: 1000 m 1000 m Drilling Contractor: Vulcan Minerals Inc. RT/KB/RF: 150 m ESTIMATES TARGET HORIZONS Spud Date: 1 October 06 Well Cost: Fishell's Brook 700 000 Days on Location: 20 EVALUATION PROGRAM Ten-metre sample intervals: During high Ropretes Conventional cores at: Five-metre sample intervals: 60 m - 1000 m Logs and Tests: NIA Logs and Tests: Neutron 60 m-Five-metre sample intervals: Densilog, GR, Acoustic caliper HOI Canned sample intervals: CASING AND CEMENTING PROGRAM Setting Depth (m) O.D Weight (kg/m) **Cementing** Program Grade 53.6 244.5 60 5-55 Class A H-40 250 177.8 Class A J-55 114 3 14.1 1000 CLADS Other Equipment head annular preventer 21 MPG BOR notahing ereby declares that, to the best of the Representative's knowledge, the information contained source, acturate and complete. The undersigned ope herein and in the atta Date 1 22/06 Ka axa Signed Op 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: This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
 Copies of all logs and well test data shall be submitted to the director by the operator gromptly after their acquisition;
 The operator shall comply with all conditions of the Drilling Program Approval No. 2006 - 116 - 01 under above well is to be drilled; under which the 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. Effective Date: October 16, 2006 Signed: Director Authority to Drill a Well No. 2006-116-01-02

R.S.N. 1990, c. P-10

² CNR 1150/96

ADW1150.wpd



APPENDIX C: CEMENT PROPOSALS AND REPORTS



SURFACE CASING CEMENTATION PROGRAM

Revision:	Version 2
Operating Company:	Vulcan Minerals Inc
Hole Name:	Flat Bay #5
Rig:	Ingersoll Rand RD10
Field:	Flat Bay
Location:	St. Georges Bay,
	Western Newfoundland, Canada
Date Issued:	30 October 2006



1 Purpose

This cement program is to create an adequate seal around the 178mm surface casing in order to continue drilling the well to total depth.

The cement pump to be used is the Bean V65 dual pump rated to 8275-kPa (1200-psi) and 300-l/min (79-gal/min).

2 Owner and Operator's Name

Vulcan Minerals Inc.

3 Contact Person for Licence

Patrick Laracy Vulcan Minerals 333 Duckworth Street St. John's, NL A1C 5G1 Tel: 709 754 3186 Fax: 709 754 3946

4 Drilling Contractor

Vulcan Minerals 333 Duckworth Street St. John's, NL A1C 5G1 Tel: 709 754 3186 Fax: 709 754 3946

5 On-Site Representation

Greg Walsh Cell: 709 689 4106 Karla Smith, P.Eng Project Manager Vulcan Minerals Cell: 709 746 2424

6 Timing

The proposed cement program is estimated to occur on October 30, 2006.



7 Cement Operations Program

7.1 Casing Properties

Casing	244.5mm (9 5/8-in)	177.8mm (7-in)
Depth	54-m (173-ft)	175-m (984-ft)
Weight	53.6-kg/m (36-lb/ft)	25.3-kg/m (17-lb/ft)
Grade	J-55	H-40
Connection	8rd LTC	8rd STC
Collar OD	10.625-in	7.656-in
Casing Drift ID	8.765-in	6.413-in
Nominal ID	8.921-in	6.538-in

7.2 Pumping Volumes

Section	Capacity	Volume	Volume
		(0% Excess)	(85% Excess)
Annular – Casing to Casing	0.0155 m ³ /m	0.79 m^3	0.79 m^3
Annular – Casing to Open Hole	0.0118 m ³ /m	1.46 m^3	2.71 m^3
Shoetrack – 10m	0.0217 m ³ /m	0.22 m^3	0.22 m^3
Casing (Displacement)	0.0217 m ³ /m	3.57 m^3	3.57 m^3
Total	2.47 m^3	3.71 m^3	

7.3 Cement System

			_
Additives		Concentration	
Class A Cement			
+ Grace Adva 100		1-liter per m ³ slurry	
(Properties: decrease	e viscosity and thickness		
without compromisin	g cement strength and anti-		
foam agent)			
Density	1821-kg/m ³ (15.2-lb/gal)		
Fluid Base	611-litre of fresh water for 1	217-kg cement	

Tested Cement Strength: 21.7-MPa

Cement additives including MI Celloflake and Halliburton Barolift are on site in the case that lost circulation materials are required while cementing.

7.4 177.8mm Casing Cementation Operations

- 1. Ensure casing is run with sufficient centralization (1 centralizer every 2 casing joints).
- 2. Check mud pump efficiency and open hole excess requirement.
- 3. Rig up cementing equipment.



- 4. Conduct Safety and Procedures meeting with all personnel on location.
- 5. Pressure test treating lines to anticipated maximum surface pressure of 1000-kPa (note cement plug will be bumped with rig pump).
- 6. Prepare to conduct cement job.
- 7. Pump $0.5m^3$ of freshwater spacer.
- 8. Pump pre-mix cement (estimated 3.71 m³ assuming shoe at 175-m, 3-m rig elevation to ground level, and 85% excess required) at a rate of approximately 0.3-m³/min. Collect at least 3 samples of pre-mixed cement at regular intervals of the pumping operation.
- 9. Drop 177.8mm solid top plug.
- 10. Chain down casing or hold down casing with topdrive to prevent floatation.
- 11. Displace cement with required volume fluid (estimated 3.57 m³ assuming shoe at 175-m and 10-m shoe track) at a rate of 0.6-m³/min assuming 95% pumping efficiency.
- 12. For the last 0.5m³ of displacement with water, slow pumping by idling the triplex pump and land plug a minimum of 2000-kPa over the final pumping pressure. Collect samples of cement returns and label.
- 13. Bleed pressure off and ensure that the float is holding.
- 14. Rig down cementing equipment.

8 Contingency for 177.8mm (7-in) Intermediate Casing

8.1 Plug Does Not Bump

The scenario that the plug does not bump, displace the casing as per cement program. **Never** over displace the casing in order to bump the plug.

8.2 Back Flow After Bumping Plug

After successfully bumping the plug, pressure shall be released and backflow measured. If there is indication that the float did not hold, then pressure shall be returned such to stop the backflow while waiting on cement.

8.3 No Cement to Surface

In the case that there is no cement to surface, then a top up job on the backside of the 177.8mm (7-in) casing shall be completed with 1" pipe.



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:	Flat Bay #5	CO-ORDINATES			
Operator:	Vulcan Minerals Inc.		UTM (NAD 27)		
Drilling Rig:	Ingersoll Rand RD10	Long: Lat:	Northing: 5359952.399m Easting: 386152.489m		
Rig Type:	Hydraulic Single	ELEVATION	DEPTH		
Drilling Contra	ctor: Vulcan Minerals Inc.	RT/KB/RF: 71.93m G.L.: 68.63m	TD: 719m TVD: 719m		
		FOR NR USE ONLY			
Spud Date: TD Date: Rig Release Da Well Terminati	25 October 2006 16 November 2006 ite: 18 November 2006 on Date: 18 November 2006	For the purpose of interpreting subsect Regulations, the rig release date is dee 	tion 154(5) of the Petroleum Drilling med to be: 06		

CASING AND CEMENTING PROGRAM

O.D. (mm)	WEIGHT (kg/m)	GRADE	SETTING DEPTH (m)	CEMENTING DETAILS
244.5	53.6	J-55	52	3.0m ³ 1820-kg/m3 Class A, cement returns
177.8	25.6	H-40	175	3.7m ³ 1820-kg/m3 Class A, cement returns
		1		
			·	

PLUGGING PROGRAM Vorla Smith

Approval of the following program was obtained by (person)	111111
from (person) Paul Molloy	of the Department of Natural Resources by means of
E-mail / Telephone Conversation	dated 16 November 2006

Type of Plug	Interval	Felt/Pressure Tested	Cement and Additives
Cement	35-20m	None	0.5m ³ 1820-kg/m3 Class A
Cement	190-158m	Felt	1.0m ³ 1820-kg/m3 Class A
Cement	719-619m	None	2.5m ³ 1820-kg/m3 Class A

Lost Circulation/Overpressure Zones:

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Downhole Completion/Suspension Equipment:

3 Cement Plugs - see attached sketch

Director

(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 V. Depresentative
ACKNOWLEDGEMENT
Acknowledged by Director





APPENDIX E: COMPOSITE WELL RECORD & TIME VERSUS DEPTH CURVE

Flat Bay #5 Exploration Well, October-November 2006

Position: projection NAD 27: 386152.489-mE, 5359952.399-mN, GL + 68.63-m, RF = + 3.3-mGL

All depths are MD RF



						Drilling Data				DF & Cementing		
Denth	Lithology	Lithology	Gas Curve	Casing Scheme		Drining Data				Dr & Comenting		Pemarks
Depui	Linology	Littlology	0 ROP (m/hr) 5	ousing ocheme								Nellar Ka
	Description	Column	0 Gas (%) 1	<u> </u>	Deviation:	Bit:	BHA:	Comments:	Drilling Fluid:	Cement:	Comments:	
0				Ę					Type: Federal Supreme gel water; MW 1050-kg/m3;	One stage cement job. Pump 0.5- m ³ H ₂ O preflush. Pump 3.0-m ³	* 100% open hole excess * 0.5-m ³ cement returns at cellar	
	Overburden			52.6 5-m					Funnel Vis 48-sec; pH 8	Class A 1820 kg/m ³ cement	* Tag TOC at 40-m	
_	01110 4711			m @ 175						slurry.		
50	Clauston			6-kg		#1 54-m to 00-m 210.1 mm Mission Air Hommor			Type: Air	One stage comparticle Pump 0.5	* Competation by Vulcan Minorala	
-	47m to 80m			n 53. d Sh		meterage: 36-m; 2-hrs; ROP: 18-m/h; RPM 40;			туре. Ап	m ³ water preflush. Pump 7-m ³	* 85% open hole excess	
100				5-mr 0.8R	1.00° @ 112-m Totco	#2. 90-m to 175-m 215.9-mm MW2106; meterage: 85-m: 37-hrs: ROP: 2.3-m/h: RPM 80:			Type: Federal Supreme gel water: MW 1050-kg/m3:	1820 kg/m3 class A cement.	* 0.7-m3 cement returns at cellar * Tag TOC at 115-m	
	Sandstone	11 10 11 10 11 11		244.		,			Funnel Vis 50-sec; pH 9	Displaced with 2.3-m water.		
-	80m to 154m			-kg/n	3.00° @ 132-m Totco							
150				5.33	2.75° @ 154-m Totco							
-				nm 2	3.50° @ 175-m Totco							
200			-	7.84		#3. 175-m to 178-m 155.6-mm Reed SL51H; meterage: 3-m; 2.5-brs: ROP: 1.2-m/b; RPM 80;		* FIT @ 178-m with				
200				1		#4. 178-m to 280-m 158.8-mm Mission Air Hammer;		5516-kpa, no pressure	e Type: Air			
-	Salt - Anhydrite 154m to 365m					meterage: 102-m; 22-hrs; ROP: 3.3-m/h; RPM 40;		drop.				
250												
-												
200					5.00°@ 3161-m Totco	#3RR. 280-m to 366-m 155.6-mm Reed SL51H;			Type: Brine water; MW			
300					0.00 @ 01011110000	meterage. 66-m, 27.75-ms, ROP. 3.1-m/n, RPM 60,			sec; pH 8			
-												
350			h		7.50° @ 341-m Totco							
-						#5. 366-m to 375-m 155.6-mm Smith SX30; meterage: 9-m; 10.25-hrs; ROP: 0.9-m/h; RPM 80;				Cement Plug #1 at depth of 719- m. Pump 0.5-m ³ water preflush	* Full returns during cement job * 30% open hole excess	
100						#4RR. 375-m to 377.5-m 158.8-mm Mission Air			Type: Air	2.5-m3 Class A 1820-kg/m ³		
400						Hammer; meterage: 2.5-m; 2-hrs; ROP: 1.3-m/h; #5RR. 377.5-m to 581-m 155.6-mm Smith SX30;			Type: Brine water; MW	cement, 4.1-m ³ drilling fluid, and		
-						meterage: 203.5-m; 85.5-hrs; ROP: 2.4-m/h; RPM			1250-kg/m3; Funnel Vis 29-	m.		
450	Basal Anhydrite		• • • • • • • • • • •						Sec, pi 10	Cement Plug #2 at depth of 190-	* Full returns during cement job	
-	365m to 600				8.75° @ 470-m Totco					m. Pump 0.2-m ³ water, 2.5-m ³	* 160% open hole excess * Tag TOC at 158-m	
		<u> </u>								class A 1820-kg/m ³ cement, 0.1-		
500		44								spotting plug 190-m to 158m.		
-		44								Cement Plug #3 at depth of 35-	t E. Hantana akaing a sama tak	
550										m. Pump 0.2-m3 water and 0.5-	" Full returns during cement job	
-		- = 🗄 -				#6. 581-m to 719-m 155.6-mm Reed SL43H; meterane: 138-m; 63-brs; ROP; 2.2-m/b; RPM 80;				m3 class A 1820-kg/m ³ cement, spotting plug 35-m to 20-m.		
						neterage. 100-in, 00-ins, 101 - 2.2-init, 11 moo,						
600	Shipcove				9.50° @ 607-m Totco							
-		0.0.000000 0.0.00000										
650												
	Fischells Brook	a. 0. 679 a. 9 a. 0. 679 a. 9										
	000111071011											
700												
-												
750												
800												
-												
850												
900												
-												
950												
REMARKS:	Licence 03-106			Spud Date: Oct 25,	2006 @ 10:00	Rig Release: Nov 18, 2006 @ 24:00			·			
	Rig: Vulcan Minerals	Inc. Ingersol	Rand RD-10	Total Operational Ho	ours: 591.00	Percentage Operational NPT: 24.3%						





Total Non-Productive Time 24.32%



APPENDIX F: DRILL CUTTINGS DESCRIPTION & LITHOLOGY



GEOLOGICAL REPORT

on

VUL FLAT BAY #5 - 2006-116-01 Flat Bay, NL

Prepared for

VULCAN MINERALS INC.

November 18, 2006



Reported to: Patrick Laracy

Geology by: Aaron Vaughan

EAST ROCK GEOCONSULTING Suite 700, One Executive Place 1816 Crowchild Trail, NW Calgary, Alberta

CONTENTS

Content	1
Abstract	2
Well Data	3
Geological Markers	4
Bit Record	5
Geological Descriptions	6
Reservoir Summary	13

ABSTRACT

VERTICAL WELL COMPLETION

VUL FLAT BAY #5 - 2006-116-01 was spud on October 25, 2006 at 09:00hrs. The objective was to drill a vertical oil production well into the Fishells Brook Conglomerate which was the primary target. The Ship Cove Limestone, which overlies the Fishells Brook Conglomerate, was the secondary target.

The well was drilled from a surface pad location approximately 50 meters off of (north) the Flat Bay road, four kilometers west of the Trans Canada Highway, Newfoundland. (Northing: 5359952.399; Easting: 386152.489) and was drilled using Vulcan Minerals Inc. Rig #RD210

The surface hole drilled from 39m to 90m MD with a 219mm Mission air hammer drill bit before water was encountered. A conventional Hughes MW2106, 216mm tri-cone bit was used to continue the surface hole to a TD of 175.00m MD

The Extrapolated SCP of 175.00m MD was reached at 22:00 hrs on October 27, 2006.

After drilling cement to 178m with a 156mm Reed SL51H insert bit, a Mission 158mm air hammer was used to drill to 280m MD. Due to the influx of formation water, air drilling ceased and the Reed SL51H bit was again picked up and used to drill to 366m MD then pulled due to low penetration rates. A Smith SX30 insert bit was run from 366m to 581m MD and pulled for wear and nozzle blocks. After trying the Mission 158mm air hammer bit with no success, a new Reed SL43H was ran to a TD of 719m MD.

The Ship Cove Limestone was encountered at 600m MD and the Fischells Brook was noted at 605m MD.

The TD of 719.00m MD was reached at 13:30 hrs on September 17, 2006

Though major drilling problems are typically mentioned in this geological report, the author has elected to refer the reader to the various engineering and drilling reports that have been compiled on this specific topic.

WELL DATA

Operator & Licensee:	Vulcan Minerals Inc.						
Well Name:	VUL FLAT BAY #5 – 2006-116-01						
License No.:	2006-116-	01					
Spud Date:	October 2	5, 2006					
Surface Location:	Flat Bay, I	NL					
Surface Coordinates:	Northing:	5359952.399; Ea	asting: 3	386152.489)		
Surface Casing Depth:	177.76m T	TVD	C				
Bottom Hole Depth:							
r							
Field Name:	Flat Bav						
Elevation:	Ground:	68.63	KB:	71.93	KB	to around:	3.33
		00.02		11.90			5.55
Drilling Contractor / Rig.	Vulcan Mi	inerals Inc. Rig #	# RD10				
Survey Contractor:	N/Δ	incluis inc. rug (, nd io				
Survey Contractor.	1 1/2 1						
Total Denth (TD):	719.00mM	D (~719 00m TV	/D ~ -5	61 67m SS) Nov	16 2006 13	·30 Hrs
	/1/10011111		2, 3	0110711100) 100	10, 2000 10	
Hole Size:	Surface:	216 mm	Interm	ediate:			
	Production:	156mm					
Surface Casing:	Size:	177.8 mm	From:	0 m	To:	175.00 m	
C	Date / Time:	October 27,	2006		Weig	jht: 48.06	68 kg/m
Intermediate Casing:	Size:	N/A	From:		To:		
	Date / Time:				Weig	lht:	
Production Casing:	Size:	N/A	From:		To:		
	Date / Time:				Weig	lht:	
Mud Type:	Gel		From:	0m	To:	39m	
JI	Air Daime		From:	39m	10: Tai	90m	
	Brine		From:	90m 178m	10: To:	1/5m 280m	
	Brine		From: From:	280m	To: To:	200m 719m	
	21110			200111	-	, 1 / 111	
Wireline Logging Bv:	N/A						
Logging Tools:	N/A						
Geological Samples:	Samples were collected from 55 m to 719.00 m MD.						
Final Well Status:	Cemented and Abandoned						

KB: 71.93 Prognosis		TRUE		
Formation	mTVD	mSS	mMD	~mSS
Overburden	0.00	71.93	0.00	71.93
Claystone	65.00	6.93	47.00	24.93
Sandstone w/mnr Gypsum and Red Shale	145.00	-73.07	80.00	-8.07
Salt – Anhydrite intermingled	188.00	-116.07	154.00	-82.07
Basal anhydrite sequence minor salt	338.00	-266.07	365.00	-293.07
Ship Cove Limestone (secondary target)	578.00	-506.07	600.00	-528.07
Fishells Brook Conglomerate (primary target)	589.00	-517.07	605.00	-533.07
тр	850.00	-778.07	719.00	-647.07

GEOLOGICAL MARKERS

Bit Number:	1	2	3	4
Size (mm)	210	216	156	158
Maka:	Mission	Luchas	Dood	Mission
		Hughes	CL 5111	
Type:	Air Hammer	MW2106	SL51H	Air Hammer
Serial #:	B98290	ER6108	ER5587	
Depth In	54	90	175	178
Dpeth Out	90	175	178	280
Meters Run:	36	85	3	102
Hours Run:	2	37	2.5	12.25
ROP (m/hr)	18.00	2.30	1.20	8.33
				_
Bit Number:	3RR	5	6	_
Size (mm)	156	156	156	
Make:	Reed	Smith	Reed	
Туре:	SL51H	SX30	SL43H	
Serial #:	ER5587	PB2404	NM3942	
Depth In	280	366	581	
Dpeth Out	366	581	719	
Meters Run:	86	215	138	
Hours Run:	27.75	5.25	70	
ROP (m/hr)	3.10	40.95	1.97	

BIT RECORD

GEOLOGICAL DESCRIPTIONS

- 60 75 Mud: 100% predominantly brownish red to red with rare to trace rounded to sub rounded pebbles
- 75 80: Missed Sample though still mainly mud as above
- 80 85 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated upper medium to upper very coarse with rare to trace upper fine to lower medium, well to moderately well sorted, sub angular to sub rounded, minor orange to pink to amber to brownish quartz grains, rare red and green chert, trace to minor micaceous claystone and consolidated very fine sandstone to siltstone stringers, good to excellent visible porosity though mud matrix may be washed
- 85 90 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated lower medium to upper coarse with rare to trace upper fine and lower very coarse to upper very coarse, well sorted, sub angular to sub rounded, minor orange to pink to amber to brownish quartz grains, rare red and green chert, rare micaceous claystone stringers; good visible porosity in clean samples, no shows
- 90 95 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated lower medium to upper coarse with rare to trace upper fine and lower very coarse to upper very coarse, well sorted, sub angular to sub rounded, minor orange to pink to amber to brownish quartz grains, rare dolomite, rare red and green chert, rare micaceous claystone stringers, rare loosely consolidated lower fine to upper fine sandstone with slightly to moderately calcareous cement; good visible porosity in clean samples, no shows
- 95 100 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated lower medium to upper coarse with rare to trace upper fine and lower very coarse to upper very coarse, well sorted, sub angular to sub rounded, minor orange to pink to amber to brownish quartz grains, rare dolomite, rare calcite fragments, rare red and green chert, rare loosely consolidated lower fine to upper fine sandstone with slightly to moderately calcareous cement; good visible porosity in clean samples, no shows
- 100 105 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated upper fine to upper medium with rare to trace lower coarse to upper very coarse, well sorted, sub angular to sub rounded, minor orange to pink to amber to brownish quartz grains, rare calcite fragments, rare red and green chert, rare loosely consolidated lower fine to upper fine sandstone with slightly to moderately calcareous cement, rare mudstone stringers; good visible porosity in clean samples, no shows
- 105 110 slightly micaceous SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated upper fine to upper medium with trace lower fine and lower coarse to upper very coarse, moderately well to well sorted, sub angular to sub rounded, trace orange to pink to amber to brownish quartz grains, rare red and green chert, minor loosely consolidated lower very fine to upper fine sandstone with moderately to very calcareous cement; good visible porosity in clean samples, no shows
- 110 115 slightly micaceous SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated upper fine to upper medium with trace lower fine and lower coarse to upper very coarse, moderately well to well sorted, sub angular to sub rounded, trace orange to pink to amber to brownish quartz grains, rare red and green chert, rare dolomite, minor loosely consolidated lower very fine to upper fine sandstone with moderately to very calcareous cement; good visible porosity in clean samples, no shows
- 115 120 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated upper medium to upper very coarse with trace lower fine to lower medium, moderately well sorted, sub angular to sub rounded with minor to occasional angular, rare orange to amber quartz grains, rare green chert, trace dolomite, rare loosely consolidated lower very fine to upper fine sandstone with moderately to very calcareous cement; good visible porosity in clean samples, no shows
- 115 120 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated upper fine to upper medium with trace lower fine and lower coarse to upper very coarse, moderately well sorted, sub angular to sub rounded with trace angular, rare orange to amber quartz grains, rare green chert, trace dolomite, minor loosely consolidated and rare strongly consolidated lower very fine to upper fine sandstone with moderately to very calcareous cement; good visible porosity in clean samples, no shows
- 125 130 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated upper fine to lower coarse with trace to minor lower fine and occasional to abundant lower coarse to upper very coarse, moderately well sorted, sub angular to sub rounded with trace angular, rare orange to amber quartz grains, rare green, red, brown angular chert stringers, rare dolomite, rare anhydrite, trace loosely consolidated and rare strongly consolidated lower very fine to upper fine sandstone with moderately to very calcareous cement, rare limestone stringers; good visible porosity in clean samples, no shows
- 125 130 SANDSTONE: 100% clear and frosted quartz, predominantly unconsolidated upper fine to lower coarse with trace to minor lower fine and minor to occasional lower coarse to upper very coarse, moderately well sorted, sub angular to sub rounded with trace angular, rare orange to amber quartz grains, rare green, red, brown angular chert stringers, rare dolomite, rare anhydrite, trace loosely consolidated and rare strongly consolidated lower very fine to upper fine sandstone with moderately to very calcareous cement, rare limestone stringers; good visible porosity in clean samples, no shows
- 135 140 SANDSTONE: 75% clear and frosted quartz, predominantly unconsolidated upper fine to lower coarse with trace to minor lower fine and rare to trace lower coarse to upper very coarse, moderately well sorted, sub angular to sub rounded with trace angular, rare orange to amber quartz grains, rare green, red, brown angular chert stringers, rare dolomite, rare anhydrite, rare limestone stringers; good visible porosity in clean samples; SILTSTONE to VERY FINE SANDSTONE: 25% consolidated with very calcareous cement, rare limestone stringers; poor to nil visible porosity; no shows
- 140 145 SANDSTONE: 75% clear and frosted quartz, predominantly unconsolidated upper fine to lower coarse with trace to minor lower fine and rare to trace lower coarse to upper very coarse and poorly to moderately well sorted, sub angular to sub rounded with

trace angular, rare orange to amber quartz grains, rare green, red, brown angular chert stringers, rare dolomite, rare anhydrite, rare limestone stringers; good visible porosity in clean samples; SILTSTONE to VERY FINE SANDSTONE: 25% consolidated with very calcareous cement, rare limestone stringers; poor to nil visible porosity; no shows

- 145 150 LIMESTONE: 75% Appears to be ferric limestone? or calcareous mudstone? possibly redeposited by slightly acidic ground water in a fracture, fault or similar space. Though mostly mammillary (botryodial to reniform) in form, a few appeared to have good cubic crystalline form. When dissolved in acid a flocculated red ocher color was noted in the acid solution as wall as microscopic magnetic platelets (not bitumen fragments). SILTSTONE to VERY FINE SANDSTONE: 25% consolidated with very calcareous cement, rare chert stringers, rare quartz grains, rare gypsum.
- 150 155 SANDSTONE: 65% clear and frosted quartz, predominantly unconsolidated upper fine to lower coarse with trace to minor lower fine and rare to trace lower coarse to upper very coarse and poorly to moderately well sorted, sub angular to sub rounded with trace angular, rare orange to amber quartz grains, rare green, red, brown angular chert stringers; SILTSTONE to VERY FINE SANDSTONE: 20% consolidated with very calcareous cement; GYPSUM/ ANHYDRITE: 15% gypsum predominantly selenite occasional alabaster, anhydrite predominantly clear to transparent very light gray and massive
- **155 160 GYPSUM/ ANHYDRITE: 90%** predominantly selenite occasional alabaster, anhydrite predominantly clear to transparent very light gray and massive; SILTSTONE to VERY FINE SANDSTONE: 10% consolidated with very calcareous cement; trace to minor sandstone predominantly quartz grains, rare dolomite, rare limestone as above
- 160 165 GYPSUM/ ANHYDRITE: 95% predominantly selenite occasional alabaster, anhydrite predominantly clear to transparent very light gray and massive; SILTSTONE to VERY FINE SANDSTONE: 5% consolidated with very calcareous cement; trace to minor sandstone predominantly quartz grains, rare dolomite, rare limestone as above
- **165 175 GYPSUM/ ANHYDRITE: 100%** predominantly selenite occasional alabaster, anhydrite predominantly clear to transparent very light gray and massive minor siltstone to very fine sandstone, rare quartz grains, rare limestone as above
- 175 180 GYPSUM: 100% predominantly selenite, rare alabaster (urbanite discluded though majority of sample)
- **180 185 GYPSUM: 90%** predominantly selenite, rare alabaster; ANHYDRITE: 10% anhydrite predominantly very light gray, massive; (still trace urbanite)
- **185 195 GYPSUM: 90%** predominantly selenite, rare alabaster; ANHYDRITE: 10% anhydrite predominantly very light gray, massive, trace to minor halite; (still trace urbanite)
- 195 200 SALT: 90% halite; GYPSUM: 10% predominantly selenite, rare alabaster
- **200 205 ANHYDRITE: 95%** predominantly very light gray to very light blue, massive; SALT: 5% halite

- 205 215 SALT: 95% halite; GYPSUM: 5% predominantly selenite, rare alabaster
- 215 220 SALT: 100% halite
- 220 235 SALT: 100% halite with rare to trace anhydrite predominantly very light gray to very light blue, massive
- 235 245 SALT: 100% halite with rare to trace anhydrite predominantly very light gray to very light blue, massive
- 245 250 SALT: 100% halite with minor anhydrite predominantly very light gray to very light blue, massive
- **250 270 SALT: 100%** halite with rare to trace anhydrite predominantly very light gray to very light blue, massive
- 270 280 ANHYDRITE 100% predominantly very light gray to very light blue and translucent white, massive, minor halite, rare selenite gypsum
- 280 305 SALT: 100% halite with rare anhydrite and selenite
- **305 320 ANHYDRITE 100%** predominantly translucent white, massive, rare pink quartz grains, rare chert grains, rare to trace selenite, trace halite
- **320 330 ANHYDRITE 100%** predominantly translucent white with trace to minor light gray, massive, rare pink quartz grains, rare dolomite, rare to trace selenite, trace halite
- **330 335 ANHYDRITE 100%** predominantly translucent white with minor to occasional light gray, massive, rare to trace selenite, trace halite
- **335 345 ANHYDRITE 100%** predominantly translucent white with rare to trace light gray, massive, rare to trace selenite, abundant halite, minor to occasional light brown to tan dolomitic gypsum (hydrothermal replacement?)
- 345 365 SALT 100% halite
- 365 375 ANHYDRITE 100% predominantly translucent white with rare to trace light gray, massive, rare to trace selenite, abundant halite, minor to occasional light brown to tan dolomitic gypsum (hydrothermal replacement?)
- 375 380 ANHYDRITE 100% predominantly translucent white with rare to trace light gray, massive, rare to trace selenite, rare halite, rare white limestone
- **380 395 ANHYDRITE 100%** predominantly translucent white with rare to trace light gray, massive, rare to trace selenite, rare halite, rare limestone
- **395 435 ANHYDRITE 100%** predominantly translucent white with rare to trace light gray, massive, rare to trace selenite, rare halite

- **435 455 ANHYDRITE 100%** predominantly translucent white with rare to trace light gray, massive, rare to trace selenite, rare halite, rare light brown to tan dolomitic gypsum (hydrothermal replacement?)
- **455 470 SALT 100%** halite, rare anhydrite, rare gypsum, minor to occasional dolomitic anhydrite as above
- **470 475 ANHYDRITE 100%** predominantly translucent white with rare to trace light gray, massive, rare selenite, rare light brown to tan dolomitic gypsum as above, trace to minor gray dolomite
- 475 480 ANHYDRITE 100% predominantly translucent white with rare to trace light gray, massive, rare selenite, rare light brown to tan dolomitic gypsum as above, trace to minor gray dolomite, rare dark gray to black chert fragments, trace to minor halite, rare muscovite
- **480 510 ANHYDRITE 100%** predominantly translucent white with rare to trace light gray, massive, rare selenite, rare to trace light brown to tan dolomitic gypsum as above, rare to trace gray dolomite, rare brownish gray chert fragments
- **510 545 ANHYDRITE 100%** predominantly translucent white with rare to trace light gray, massive, rare selenite, rare to trace gray dolomite, rare brownish gray chert fragments
- 545 575 ANHYDRITE 100% predominantly translucent white with rare to trace light gray, massive, rare selenite, trace light brown to tan dolomitic gypsum, rare to trace gray dolomite, rare brownish gray chert fragments
- 575 580 ANHYDRITE 100% predominantly translucent white with rare to trace light gray, massive, rare selenite, trace light brown to tan dolomitic gypsum, rare to trace gray dolomite, rare brownish gray chert fragments, VERY RARE LIMESTONE fragments, predominantly brownish gray, microcrystalline, even grained, massive, dense; no shows
- 580 590 ANHYDRITE 95% predominantly translucent white with rare to trace light gray, massive, rare selenite, trace light brown to tan dolomitic gypsum, rare to trace gray dolomite, rare brownish gray chert fragments, rare quartz grains; LIMESTONE 5% predominantly light to dark brownish gray, microcrystalline, even grained, massive, predominantly soft with rare firm dense; no stain or cut, no shows
- **590 600 ANHYDRITE 100%** predominantly translucent white with rare to trace light gray, massive, rare selenite, trace light brown to tan dolomitic gypsum, rare to trace gray dolomite, rare brownish gray chert fragments, rare quartz grains; no stain or cut, no shows

600: Ship Cove Limestone

600 - 605 LIMESTONE 100% predominantly light brownish gray to dark cream gray, microcrystalline, even grained, massive, predominantly soft to slightly firm, dense, argillaceous, rare oolitic structure, tight; rare dolomitic fragments, no stain or cut, no shows

605: Fischells Brook

- **605 615 CONGLOMERATE 100%** predominantly light brownish gray to light gray, lower fine to upper medium with trace to minor coarse clear and frosted quartz and pink to tan and rare orange feldspar grains, predominantly sub angular to angular, poor to moderately sorted, friable with mainly calcareous cement, minor silica, minor orange to pink quartz grains, abundant dolomitic fragments, rare to trace glauconite, minor calcite fragments, rare biotite, rare chert fragments, rare anhydrite fragments, rare limestone fragments, rare oolitic limestone, abundant lithic fragments, poor intergranular porosity, fluorescence, no cut, no shows
- **615 640 CONGLOMERATE 100%** predominantly mid brownish gray to light gray, lower fine to upper medium with trace to minor coarse clear and frosted quartz and pink to tan and rare orange feldspar grains, predominantly sub angular to angular, poor to moderately sorted, friable with mainly calcareous cement, minor silica, minor orange to pink quartz grains, abundant dolomitic fragments, rare to trace glauconite, minor calcite fragments, rare biotite, rare oolitic limestone, abundant lithic fragments, rare anhydrite fragments, rare limestone fragments, rare multi-colored chert, poor intergranular porosity, fluorescence, no cut, no shows
- **640 665 CONGLOMERATE 100%** predominantly brownish gray to light gray, lower fine to upper medium with trace to minor coarse clear and frosted quartz and pink to tan and rare orange feldspar grains, predominantly angular to sub angular, poor to moderately sorted, friable with mainly calcareous cement, occasional orange to pink quartz grains, abundant dolomitic fragments, rare to trace glauconite, minor calcareous fragments, rare biotite, rare chert fragments, rare anhydrite fragments, rare multi-colored chert, abundant lithic fragments, rare oolitic limestone, poor intergranular porosity, rare fluorescence, no cut, no shows
- **665 680 CONGLOMERATE 100%** predominantly light brownish gray to light gray, upper fine to lower medium, clear to minor frosted quartz and rare multi-colored chert fragments, occasional to abundant pink to tan and orange feldspar, mainly angular to sub angular, moderately well to well sorted, inc trace glauconite, rare gypsum, rare anhydrite, occasional to abundant limestone fragments as above, minor to occasional dolomite, abundant lithic fragments, predominantly calcareous possible minor siliceous cement, rare oolitic limestone, poor intergranular porosity, rare fluorescence, no shows
- **680 695 CONGLOMERATE 100%** predominantly brownish gray to light gray, upper very fine to lower medium with trace to minor upper medium to coarse clear and frosted quartz and pink to tan and rare orange feldspar grains, predominantly sub angular with minor angular, poor to moderately sorted, friable with mainly calcareous cement, occasional orange to pink quartz grains, occasional dolomitic fragments, rare to trace glauconite, minor calcareous fragments, rare biotite, rare multi-colored chert, abundant lithic fragments, poor intergranular porosity, rare fluorescence, no cut, no shows

695: Oxidized Zone - Fischells Brook

695 - 710 CONGLOMERATE 100% predominantly upper fine to lower medium, clear to minor frosted quartz and rare chert grains, pink to tan feldspar, angular to sub rounded, moderately well to well sorted, inc trace glauconite, minor to occasional dolomite,

abundant lithic fragments, predominantly calcareous possible minor siliceous cement, poor intergranular porosity, no stain or cut, no shows

710 - 719 CONGLOMERATE 100% predominantly light brown, upper fine to lower medium, clear to minor frosted quartz and rare multi-colored chert fragments, occasional to abundant pink to tan and orange feldspar, mainly sub angular to sub rounded with minor angular, moderately well to well sorted, inc trace glauconite, rare gypsum, rare anhydrite, occasional to abundant limestone fragments as above, minor to occasional dolomite, abundant lithic fragments, predominantly calcareous possible minor siliceous cement, poor intergranular porosity, no stain or cut, no shows

RESERVOIR QUALITY SUMMARY

The Fischells Brook Conglomerate was considered to be the primary target with the Ship Cove Limestone being regard as the secondary target.

The **Fischells Brook Conglomerate** was noted in sample as predominantly mid to light brownish gray to cream gray in colour. It consisted typically of lower fine to upper medium quartz grains with common feldspar. The conglomerate was predominantly sub angular to angular, poor to moderately well sorted and fairly friable. It contained many lithic fragments, chert, limestone (much of which was oolitic) and minor amounts of anhydrite (sluff from the above sequences?). The Fischells Brook Conglomerate shows trace to minor fluorescence though no cut could be established, it has poor intergranular porosity and therefore regarded as having **poor reservoir potential.**

The **Ship Cove Limestone** was noted in sample as predominantly light brownish gray to dark cream gray, microcrystalline, even grained, and massive limestone. It was predominantly soft, and dense with rare oolitic texture. The Ship Cove Limestone is considered tight with no stain or cut noted and is therefore regarded as having **poor reservoir potential**.



APPENDIX G: STRATIGRAPHIC COLUMN



Well Name:	VUL FLAT BAY #5 2006-116-01
Location:	Flat Bay, Newfoundland
Licence Number:	2006-116-01 Region: Newfoundland
Spud Date:	Oct 25, 2006; 09:00hrs Drilling Completed: Nov 16, 2006; 13:30hrs
Surface Coordinates	Northing: 5359952.399
	Easting: 386152.489
Bottom Hole Coordinates:	Northing: 5359952.399
	Easting: 386152.489
Ground Elevation (m):	68.63 K.B. Elevation (m): 3.33
Logged Interval (m):	53.50 To: 719.00 Total Depth (m): 719.00
Formation:	Ship Cove LS - Fishells Brook Congl
Type of Drilling Fluid:	Gel, Air, Brine
	Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.con

OPERATOR

Company: Vulcan Minerals Inc. Address: 333 Duckworth Street St. John's, Newfoundland A1C 1G9

GEOLOGIST

Name: Aaron Vaughan Company: East Rock Geoconsulting Address: Suite 700, One Executive Place 1816 Crowchild Trail NW Calgary, Alberta, T2M 3Y7

Comments

See Geological Report

VUL FLAT BAY #5 - 2006-116-01



















480 - 510 ANHY 100% predy transl wh wi rr - tr lt gy, mas, rr selenite, rr - tr lt brn - tan dolc gyp aa, rr - tr gy dol, rr brnsh gy cht frags

510 - 545 ANHY 100% predy transl wh wi rr - tr lt gy, mas, rr selenite, rr - tr gy dol, rr brnsh gy cht frags



545 - 575 ANHY 100% predy transl wh wi rr - tr lt gy, mas, rr selenite, tr lt brn - tan dolc gyp, rr - tr gy dol, rr brnsh gy cht frag









APPENDIX H: EMPLOYEE BENEFITS SUMMARY



Week	Resid	Total	
	NL	Other	
1	15	1	16
2	12	1	13
3	9	1	10
4	14	1	15

Flat Bay #5: Benefits Summary

Average number of workers on site each week	13.5
Percentage of workers residents of NL	92.6%
Percentage of workers non-residents of NL	7.4%



Week	1: Octob	er 26 to No	ovember 1			2: November 2 to November 8					
Position	NL Residents	# of Days Worked	Non- NL Residents	# of Days Worked	Total	NL Residents	# of Days Worked	Non- NL Residents	# of Days Worked	Total	
Project Manager / Engineer	1	7			1	1	7			1	
Supervisors	1	5			1	1	7			1	
Rig Mangers	1	4			1					0	
Drillers	2	7			2	2	7			2	
Floorhands	4	7			4	4	7			4	
Geologists			1	4	1			1	4	1	
Mud Loggers					0					0	
MWD/Directional					0					0	
Wireline Logging					0					0	
Cementing	1	2			1					0	
Testing					0					0	
Administration					0					0	
Security	1	7			1	1	7			1	
Heavy Equipment Operators	2	7			2	2	2			2	
Welders & Helpers	1	2			1					0	
Fuel Hauler	1	2			1	1	2			1	
Winterization					0					0	
Waste Disposal					0					0	
Total	15		1		16	12		1		13	



Week	3: Novem	ber 9 to 15				4: November 16 to 18					
Position	NL Residents	# of Days Worked	Non- NL Residents	# of Days Worked	Total	NL Residents	# of Days Worked	Non- NL Residents	# of Days Worked	Total	
Project Manager / Engineer	1	7			1	1	3			1	
Supervisors	1	7			1	1	3			1	
Rig Mangers					0					0	
Drillers	2	7			2	2	3			2	
Floorhands	4	7			4	4	3			4	
Geologists			1	7	1			1	3	1	
Mud Loggers					0					0	
MWD/Directional					0					0	
Wireline Logging					0					0	
Cementing					0	1	2			1	
Testing					0					0	
Administration					0					0	
Security					0	1	1			1	
Heavy Equipment Operators					0	2	2			2	
Welders & Helpers					0	1	1			1	
Fuel Hauler	1	2			1					0	
Winterization					0					0	
Waste Disposal					0	1	2			1	
Total	9		1		10	14		1		15	



APPENDIX I: DAILY OPERATIONAL REPORTS

DAILY DRILLING REPORT

- aloa		aio						DA		
Flat Bay	#5					REPORT #:	1	DATE:	Octob	er 26, 2006
DEPTH 24:00:	106	.0 m	PROGRESS	52.0	0 m	Last 24 Hr Rot	tating Time:	6.00 hr	Ave ROP:	8.7 m/hr
OPER 09:00:	Drill 216mm	hole at 130r	n			FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND .:	Go	bod	WEATHER:	Di	izzel	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	3°C	T.P. MOBILE:	
FORMATION:	Quartz &	claystone	K.B. ELEV.:	3.3	8 m	ROADS:	G	ood		
	BIT PERFO	DRMANCE		SUR	VEYS	DRILLIN	IG FLUID		PUMPS	1
Bit No.	1	2			-	Time	22:00	Pump No.	1	
Size (mm)	219	216				Depth(m)	97	Make	Gardner De	enver
Mfg.	Mission					Density	1050	Model	PY-7	
Туре	Air Hammer	MW2106				Mud Grad		Liner X Stk	6"	
Serial #	B98290	ER6108				Vis	50	SPM	40	
Nozzles		Open				PV		Pump Eff.	95%	
From (mKB)	54	90				YP		Pump Rate	0.39	
To (mKB)	90	106				Gels		Pump Press.	350	kPa
Hrs on Bit	2	4				pН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM	20					Filter Cake		Nozzle Vel		m/sec
Condition	good					Sand (%)				
Pulled For?	water					Solids (%)		М	JD & CHEM	ICALS
Meters	36	16				Oil (%)		Mud Cycle	88	min
m/hr	18	4				Pf/Mf		Bottoms Up	10	min
Cum Hrs						MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	4	m3
BOTTOMH	OLE ASSEM	BLY				Ca (ppm)		System Vol.	34	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1	Bit	8.5-in		3-1/2" Reg				Mud & Chemica	Is Added:	
2	Stabilizer	8-in		2-7/8" IF		Mud Co.		6sxs of federal s	supreme	
3	Drill Collars	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole:		DP on Loc:		DP Conn:	2-7/8" IF	VOLUMES	M3			
DRILLING	OPERATION	S TIME BRE	AKDOWN			Water added		Mud Daily Cost		
RU / TO	5 1/4	Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid	4	Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air	2	Run Casing				RSPP		Shaker Make		FSI
Reaming		Cementing				ST/Min		Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting	1/4	MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)		
Tripping	4	Test BOPs		W.O GEN		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt	1			Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST				Calc Hole Fill		Hours/Days		
		Hndle Tools		Total Hrs	16 1/2	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FO	OR THE DA	TE :	October	25, 2006	(0000 hrs -	2400 hrs)			
From	То	Duration			-,	E	Event			
7:30	7:45	0.25	Held pre-sp	oud safety mee	eting.					
7:45	9:00	1.25	Rig up dive	rter, ran in wit	h air hamme	r and tagged	cement at 4	l0m		
9:00	10:00	1.00	Drill out cer	ment and shoe	e to 52.6m.					
10:00	12:00	2.00	Air drill 219	mm hole from	52.6m to 89	m.				
12:00	16:00	4.00	POOH for t	ricone due to	excessive wa	ater and grav	el in returns	. Fill hole w/2r	m3 mud. Flo	w check. Rig out
			diverter and	d lay down air	hammer. Ma	ike up tricone	e and rig in o	liverter.		
16:00	17:30	1.50	RIH to 87m	(2m of fill). Di	rill 216mm ho	ole from from	1 89m to 95n	n.		
17:30	20:30	3.00	POOH to 4	m to add drill o	collars.					
20:30	21:30	1.00	RIH with 21	6mm tricone f	from 4m to 9	5m.				
21:30	0:00	2.50	Drill 216mn	n hole from 95	m to 106m.					
24 HOUR F	orcast :									
Continue to	arıll 216mm	nole to section	on ID.							

Summary of Rig Up Operations:

16Oct: Start mobilizing drilling rig and equipment. Complete mast inspection prior to raising the mast. 20Oct: Drill 216mm pilot hole with tricone from surface to TD at 54m (bedrock shale found at 47m). 21Oct: Open hole to 311mm with tricone. 22Oct: Hold safety meeting and run 9jts of 244.5mm casing with shoe at 52.6m. 23Oct: Pump 3-m3 (100% excess) 15.2ppg class A cement and displace with 3.1-m3 of water. Good cement returns. Wait on cement. Prepare diverter, rotating head, casing bowl, lay out air discharge line and flare line.

Flat Bay	#5					REPORT #:	2	DATE:	Octob	oer 27, 2006
DEPTH 24:00:	145.	0 m	PROGRESS:	39.0	0 m	Last 24 Hr Rota	ating Time:	17.50 hr	Ave ROP:	2.2 m/hr
OPER 09:00:	Wait on serv	ice from Bat	tlefield for ge	enerator		FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	Dr	izzel	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	3°C	T.P. MOBILE:	
FORMATION:	Quartz &	claystone	K.B. ELEV.:	3.3	m	ROADS:	G	ood		
			•							
	BIT PERFO	DRMANCE		SURV	/EYS	DRILLIN	G FLUID		PUMPS	;
Bit No.	2			112 m	1.00 °	Time	22:00	Pump No.	1	
Size (mm)	216			132 m	3.00 °	Depth(m)	97	Make	Gardner De	enver
Mfg.				154 m	2.75 °	Density	1050	Model	PY-7	
Туре	MW2106					Mud Grad		Liner X Stk	6"	
Serial #	ER6108					Vis	50	SPM	40	
Nozzles	Open					PV		Pump Eff.	95%	
From (mKB)	90					YP		Pump Rate	0.39	
To (mKB)	146					Gels		Pump Press.	350	kPa
Hrs on Bit	21 1/2					рН		Drillpipe AV		m/min
WOB (daN)	00					WL (cc's)		Drillcollar AV		m/min
RPM	90					Filter Cake		Nozzle Vel		m/sec
Condition	good					Sand (%)				
Pulled For?	56					Solids (%)		WIC Musi Quala		
m/br	2.60							Nua Cycle	1/	min
	2.00							Bollonis Op	30	m3
Cullins	I							Hole Volume	5	m3
BOTTOMH				IL		Co (ppm)			35	m2
No	Item	Max OD	Min ID	Connection S	Size & Type	Ca (ppin)		System vol.		110
1	Bit	8.5-in		3-1/2" Reg				Mud & Chemical	ls Added:	
2	Stabilizer	8-in		2-7/8" IF		Mud Co.		6sxs of federal s	upreme	
3	Drill Collars	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole:		DP on Loc:		DP Conn:	2-7/8" IF	VOLUMES	M ³			
DRILLING	OPERATION	S TIME BRE	AKDOWN			Water added		Mud Daily Cost		
RU / TO		Survey	1/2	Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid	17 1/2	Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing				RSPP		Shaker Make		FSI
Reaming		Cementing				ST/Min		Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)		
Tripping		Test BOPs		W.O GEN		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig	6	DST				Calc Hole Fill		Hours/Days		
		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FO	OR THE DAT	ſE :	October 2	26, 2006	(0000 hrs - 2	2400 hrs)			
From	То	Duration	D			E	Event			
0:00	10:00	10.00	Drill 216 mr	n hole F/ 106	m To 132 m					
10:00	10:30	0.50	Survey @ 1	32 M	m To 140					
10:30	17:00	6.50	Drill 216 mr	n noie F/ 132	m 10 143 m					
23:00	23.00	1.00	Drill 216 mr	m hole $F/1/3$	m To 145 m					
20.00	0.00	1.00	210111		11110140111					
-										
-										
				-	-	-	-			
24 HOUR F	orcast :		1							
Continue to	drill 216mm h	nole section	to casing po	int.						

Flat Bay	#5					REPORT #:	3	DATE:	Octob	per 28, 2006	
DEPTH 24:00:	175.	.0 m	PROGRESS:	30.0	0 m	Last 24 Hr Rot	tating Time:	15.50 hr	Ave ROP:	1.9 m/hr	
OPER 09:00:	Run 177.8m	m casing				FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673	
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	Dr	izzel	TOOLPUSH:		
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	3°C	T.P. MOBILE:		
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	3 m	ROADS:	G	ood			
				1		ū. <u> </u>					
	BIT PERFO	DRMANCE	1	SUR	VEYS	DRILLIN	IG FLUID		PUMPS	5	
Bit No.	2			112 m	1.00 °	Time	02:00	Pump No.	1		
Size (mm)	216			132 m	3.00 °	Depth(m)	147m	Make	Gardner D	enver	
Mfg. -	MANDAOC			154 m	2.75 °	Density	1060	Model	PY-7		
Type				175 m	3.50	Mud Grad	60	Liner X Stk	0 40		
Serial #	Open						00		40 95%		
From (mKB)	90					YP		Pump Rate	0.39		
To (mKB)	175					Gels		Pump Press.	350	kPa	
Hrs on Bit	37					рН	8.5	Drillpipe AV		m/min	
WOB (daN)	-					WL (cc's)		Drillcollar AV		m/min	
RPM	90					Filter Cake		Nozzle Vel		m/sec	
Condition	good					Sand (%)					
Pulled For?						Solids (%)		М	JD & CHEM	IICALS	
Meters	85					Oil (%)		Mud Cycle	94	min	
m/hr	2.30					Pf/Mf		Bottoms Up	17	min	
Cum Hrs						MBT		Tanks	30	m3	
						CI (ppm)		Hole Volume	6	m3	
BOTTOMH		BLY		O and a stilling of)	Ca (ppm)		System Vol.	36	m3	
INO. 1	Item Dit	Max OD	Min ID	Connection a	Size & Type			Mud & Chamian	lo Addadu		
2	Stabilizer	8-in		2-7/8" IF		Mud Co		6sxs of soda ash			
3	Drill Collars	4 75-in		3-1/2" IF		Mud Co. Mud Man		USXS OF SOUA AS	11		
BHA Length:	10.17	Hook Load:		DP size	4.5"	Mud Up @					
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF						
Jts DP in hole: DP on Loc: DP Conn: 2-7/8" IF VOLUMES M ³											
DRILLING	OPERATION	S TIME BRE	AKDOWN			Water added		Mud Dailv Cost			
RU / TO		Survey	1/4	Move Rig		Losses		Mud Cum Cost			
Drill w/ fluid	15 1/2	Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL		
Drill w/ air		Run Casing		_		RSPP		Shaker Make		FSI	
Reaming		Cementing				ST/Min		Shaker Mesh		180	
Rm Rathole		WOC		Safety Meeting		MACP(kPa)			Desilter	Centrifuge	
Cond / Circ	5	NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)			
Tripping	2	Test BOPs		W.O GEN		Act Hole Fill		U.F. (kg/m3)			
Lubricate Rig	1 1/4	Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)			
Repair Rig		DST				Calc Hole Fill		Hours/Days			
		Hndle Tools		Total Hrs	24	Act Hole Fill		Boller Hrs:		(to 24:00)	
24 HOUR S		OR THE DA	re :	October	27, 2006	(0000 hrs -	2400 hrs)				
From	0:45	Duration	Drill 216mm	bolo from 14	5m 147	E	zvent				
0:45	1:00	0.75	Rig Service		511-147						
1:00	1:15	0.25	Survev @ 1	47m							
1:15	5:45	4.50	Drill 216mn	hole from 14	7m-154m						
5:45	10:30	4.75	Condition n	nud properties	. Trouble she	oot problem	with light pla	nt.			
10:30	15:00	4.50	Drill 216mn	hole from 15	54m-162m.						
15:00	15:30	0.50	Replace pa	cking in wash	pipe.						
15:30	19:30	4.00	Drill 216mn	hole from 16	2m-170m.						
19:30	21:45	2.25	Rig Service								
21:45	22:00	0.25	Drill 216mn	hole from 17	′0m-175m.						
22:00	0:00	2.00	Wiper trip to	o shoe. No ob	structions or	till on botton	า.				
24 HOUR F	orcast :		1								
Pooh lav do	own BHA. Ria	up & run 17	7.8mm casi	ng as per proc	gram.						
	5	•	-		-						

Flat Bay #5						REPORT #:	4	DATE:	Octob	er 29, 2006
DEPTH 24:00:	175.	.0 m	PROGRESS	. ()	Last 24 Hr Rotating Time: 0			Ave ROP:	0
OPER 09:00:	Wait on cem	enters	1			FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	Dr	izzel	TOOLPUSH:	Greg Walsh
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	3°C	T.P. MOBILE:	709 689 4106
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	ßm	ROADS:	G	ood		T
						1				
	BIT PERFO	DRMANCE	1	SUR	VEYS	DRILLIN	IG FLUID		PUMPS	
Bit No.				112 m	1.00 °	Time	22:00	Pump No.	1	
Size (mm)				132 m	3.00 °	Depth(m)	1/5	Make	Gardner De	enver
Mfg.				154 m	2.75	Density	1050		FT-7 6"	
Serial #				175111	5.50	Vis	50		40	
Nozzles						PV	00	Pump Eff.	95%	
From (mKB)						YP		Pump Rate	0.39	
To (mKB)						Gels		Pump Press.	350	kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		М	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle	77	min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks	30	m3
DOTTOMU						CI (ppm)		Hole Volume		m3
BOLLOWH			Min ID	Connection	Sizo & Typo	Ca (ppm)		System Vol.	30	m3
1	Rit	Nax OD		3-1/2" Reg	bize a Type			Mud & Chomica	le Addod:	
2	Stabilizer	8-in		2-7/8" IF		Mud Co		Mud & Chemica	is Auueu.	
3	Drill Collars	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole:		DP on Loc:		DP Conn:	2-7/8" IF	VOLUMES	M ³			
DRILLING	OPERATION	S TIME BR	EAKDOWN			Water added		Mud Daily Cost		
RU / TO	5 1/2	Survey	1/2	Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing	10 1/2	M/U L/D BHA	1	RSPP		Shaker Make		FSI
Reaming		Cementing				ST/Min		Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		MACP(kPa)			Desilter	Centrifuge
Cond / Circ	4 1/2	NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)		
Tripping	1	Test BOPs		W.O GEN		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig	4				24	Calc Hole Fill		Hours/Days		(1.01.00)
Rig Service		Hndle I ools		Total Hrs	24	Act Hole Fill		Boller HIS:		(to 24:00)
24 HOUR S		Duration	IE:	October	28, 2006	(0000 hrs -	2400 hrs)			
0.00	0.30	0.50	Circulate a	nd condition m	nud	E	_vent			
0:30	1:00	0.50	Survey incl	ination at 175	m					
1:00	2:00	1.00	POOH to ri	un casina	••					
2:00	3:30	1.50	Nipple dow	n diverter						
3:30	4:30	1.00	Lay down E	ЗНА						
4:30	6:00	1.50	Nipple Up o	diverter						
6:00	8:30	2.50	Rig up to ru	in casing. Mal	ke up guide s	hoe and inse	ert float. Sho	e track 10m		
8:30	12:00	3.50	Run 177.8r	nm casing to 3	30m					
12:00	13:00	1.00	Rig Service)						
13:00	15:00	2.00	Run 177.8r	nm casing to 7	79m					
15:00	16:30	1.50	Circulate ca	asing and real	Ign topdrive					
16:30	21:30	5.00	Kun 1//.8r	nm casing to '						
21:30	0:00	2.50	Circulate al	iu condition f	iud					
24 HOUR F	orcast :									
Wait on cen	nenters- clear	n mud pump	and prepar	e well control	equipment w	hile waiting c	on cementer	S.		
						2				

Flat Bay	#5					REPORT #:	5	DATE:	Octob	oer 30, 2006
DEPTH 24:00:	175.	.0 m	PROGRESS:	C)	Last 24 Hr Rot	tating Time:	0	Ave ROP:	0
OPER 09:00:	Wait on cem	enters				FOREMAN:	Bill V	/illiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	Dr	izzel	TOOLPUSH:	Greg Walsh
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	°C	T.P. MOBILE:	709 689 4106
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	m	ROADS:	G	ood		
	BIT PERFO	DRMANCE		SUR\	/EYS	DRILLIN	G FLUID		PUMPS	5
Bit No.				112 m	1.00 °	Time		Pump No.	1	
Size (mm)				132 m	3.00 °	Depth(m)		Make	Gardner De	enver
Mfg.				154 m	2.75 °	Density		Model	PY-7	
Туре				175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #						Vis		SPM	40	
Nozzles						PV		Pump Eff.	95%	
From (mKB)						YP		Pump Rate	0.39	
To (mKB)						Gels		Pump Press.	350	kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		MU	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle	77	min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs	ļ					МВТ		Tanks	30	m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEM	BLY				Ca (ppm)		System Vol.	30	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1								Mud & Chemical	ls Added:	
2	-	-				Mud Co.				
3	10.17				4 5"	Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2 IF		3			
Jts DP in hole:		DP on Loc:		DP Conn:	2-7/8" IF	VOLUMES	IVI			
DRILLING	OPERATION	S TIME BRE	EAKDOWN		1	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CON	NIROL	501
Drill w/ air		Run Casing		M/U L/D BHA		RSPP		Shaker Make		FSI
Reaming		Cementing				ST/Min		Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		MACP(kPa)			Desilter	Centrifuge
i ripping		Drill Out Creat		W.U GEN	24	Act Hole Fill		O.F. (kg/m3)		
Repair Rig				wait on services	24	Calc Hole Fill		Hours/Davs		
Rig Sonvice		Updia Taola			24			Boiler Hrs		(to 24:00)
					24		04001	Doller 1113.		(10 24.00)
24 HOUR S		Duration		October	29, 2006	- 0000 hrs)	2400 nrs)			
	0:00	25.00	Wait on cer	nontors (Davi	ight sovings	time)	ent			
0.00	0.00	23.00	Wall Officer	nemers. (Day	igin savings	une)				
24 HOUR F	orcast :									
Cement cas	sing and wait	on cement								

Elat Bay	#5					DEDODT #	e	D.1.75	Ootoh	or 21 2006
Flat Day	#J	0			<u>, </u>	REPORT #:	0	DATE:		0
DEPTH 24:00:	175	.0 m	PROGRESS	: (J	Last 24 Hr Rot	ating Lime:	0	Ave ROP:	0
OPER 09:00:	Nipple down	BOP stack		-		FOREMAN:	Bill V	villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	bod	WEATHER:	Dr	izzel	TOOLPUSH:	Greg Walsh
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	3°C	T.P. MOBILE:	709 689 4106
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	8 m	ROADS:	G	ood		
	BIT PERFO	ORMANCE		SUR	/EYS	DRILLIN	IG FLUID		PUMPS	
Bit No.				112 m	1.00 °	Time		Pump No.	1	
Size (mm)				132 m	3.00 °	Depth(m)		Make	Gardner De	enver
Mfa.				154 m	2.75 °	Density		Model	PY-7	
Type				175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #					0.00	Vie		SDM	40	
Nozzles									95%	
From (mKB)								Pump Pate	0.39	
						Colo			350	kDo
Hro on Bit								Pump Press.	550	KFa
						pn Maria				
WOB (daN)						VVL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		MU	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle	77	min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks	30	m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEM	BLY				Ca (ppm)		System Vol.	30	m3
No.	ltem	Max OD	Min ID	Connection S	Size & Type					
1								Mud & Chemical	ls Added:	
2						Mud Co.				
3						Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
lte DD is heler				BB 0	2 7/9" IE		м ³			
DRULING				DF COIII.	2-170 11	VOLONILO				
DRILLING	OPERATION	S TIME BRE	AKDOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		M/U L/D BHA		RSPP		Shaker Make		FSI
Reaming		Cementing	1	Wellhead	2	ST/Min		Shaker Mesh		180
Rm Rathole		woc	11 1/2	Safety Meeting	1/2	MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)		
Tripping		Test BOPs		W.O GEN		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services	9	Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST				Calc Hole Fill		Hours/Days		
Rig Service		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S			re ·	October	30 2006	(0000 hrs -	2400 hrs)	1		
From		Duration		000000	00,2000	00001	Event			
0.00	9:00	9.00	Wait on cer	menters		-				
9:00	9:30	0.50	Pre-ioh Saf	ety meeting n	rior to comer	itation				
0.20	10.20	1.00	Comont 17	7 9mm cocing		am Dump 2	7m2 1900 k	a/m class A c	omont Dico	laca comont with
9.30	10.30	1.00	2 2m2 woto	r. Approvimat	as per progr	ani. Fump 3	oturno Did r	g/III class A c	ement. Disp	lace cement with
10.30	22.00	11 50	Wait on cor	nont Propara		pent clean o	ellar and de	an mud numr		
10.30	22.00	2.00	Cut 244 Em	ment. Frepare	177 9mm or	nem, clean c		an muu pump		
22.00	0.00	2.00	Gut 244.511	in casing and		ising. Frepar	e casing but	WI.		
			-							
			-							
24 HOUR F	orcast :									
Nipple dow	n BOPs. Test	BOPs. Com	mence drillir	ng main hole s	ection.					
1										

Flat Bay	#5					REPORT #	7	DATE:	Nover	nber 1 2006
DEPTH 24:00:	175	0 m	PPOCPESS)	Last 24 Hr Rot	tating Time	DATE.		0
OPER 09:00:	M/U BHA an	d run in hole	TROOKESS.		,		Bill V	Villiams		709-689-9673
	ingo Bravan			Go	od	WEATHER:	Dr	izzel	TOOL PLISH:	Greg Walsh
DAILT COST.				Ingeroell B	and PD10	TEND		000		700 690 4106
COM COST:	Anh	drito				TEMP.:			T.P. MOBILE:	109 009 4100
TORMATION.	7 (111)	anto	R.D. LLLV	0.0	,	NOADS.				
				SIID)	/EVS			l	DIIMDS	
Bit No	DITFERIC			112 m	1 00 °	Timo		Rumo No	1	
Size (mm)				132 m	3.00 °	Depth(m)		Make	Gardner De	enver
Mfa				154 m	2.75 °	Density		Model	PY-7	
Type				175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #						Vis		SPM	40	
Nozzles						PV		Pump Eff.	95%	
From (mKB)						YP		Pump Rate	0.39	
To (mKB)						Gels		Pump Press.	350	kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)		-		
Pulled For?						Solids (%)		MU	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle	77	min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks	30	m3
DOTTOM						CI (ppm)		Hole Volume		m3
BOLLOWH				Connection		Ca (ppm)		System Vol.	30	m3
1 INO.	item	Max OD	IVIIN ID	Connection S	size & Type	-1			- A	
2						Mud Co		Mud & Chemical	IS Added:	
3						Mud Co. Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:	-	Jts DP Racks		DC Conn:	3-1/2" IF					
Its DP in hole:		DP on Loc:		DP Copp:	2-7/8" IF		M ³			
	OPERATION			Di comi		Water added		Mud Daily Cost		
		Survey		Move Rig		Losses		Mud Duny Cost		
Drill w/ fluid		Logging		Fishing				SOLIDS COL	NTROI	
Drill w/ air		Run Casing		M/U L/D BHA		RSPP		Shaker Make		FSI
Reaming		Cementing		Wellhead	5	ST/Min		Shaker Mesh		180
Rm Rathole		woc		Safety Meeting	-	MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's	11 1/2	Mix mud		Calc Hole Fill		Vol UF (l/min)		Ũ
Tripping		Test BOPs	7 1/2	W.O GEN		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services		Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST				Calc Hole Fill		Hours/Days		
Rig Service		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FO	OR THE DAT	ΓE :	October	31, 2006	(0000 hrs -	2400 hrs)			
From	То	Duration				È	Event			
0:00	5:00	5.00	Cut 244.5m	im casing and	177.8mm ca	asing. Dess a	and weld on	casing bowl.		
5:00	16:30	11.50	Nipple up E	BOPs						
16:30	0:00	7.50	Rig up to a	nd pressure te	st BOPs and	I related well	control equi	pment		
	-									
	-									
24 HOUR F	orcast :									
Test BOPs	. Leak off test	t. Commence	e drilling mai	n hole section						
1										

Flat Bay	#5					REPORT #:	8	DATE:	Nover	nber 2, 2006
DEPTH 24:00:	175	.0 m	PROGRESS	: ()	Last 24 Hr Rot	tating Time:	0	Ave ROP:	0
OPER 09:00:	Repair Rig N	/lotor				FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND .:	Go	od	WEATHER:	Di	izzel	TOOLPUSH:	Greg Walsh
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	3°C	T.P. MOBILE:	709 689 4106
FORMATION:	Anhy	drite	K.B. ELEV.:	3.3	3 m	ROADS:	G	ood		
				10		1				
	BIT PERFO	DRMANCE		SUR	VEYS	DRILLIN	IG FLUID		PUMPS	
Bit No.				112 m	1.00 °	Time		Pump No.	1 Candran D	
Size (mm)				132 m	3.00 -	Depth(m)		Make		enver
iviig. Tyrpo				134 m 175 m	2.75	Density Mud Grad		Model	6"	
Serial #				17511	5.50	Vis			40	
Nozzles						PV		Pump Eff.	95%	
From (mKB)						YP		Pump Rate	0.39	
To (mKB)						Gels		Pump Press.	350	kPa
Hrs on Bit						pН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		MU	JD & CHEM	IICALS
Meters						Oil (%)		Mud Cycle	77	min
m/hr						Pf/Mf		Bottoms Up	00	min
Cum Hrs						MB I		Tanks	30	m3
DOTTOMU						CI (ppm)		Hole Volume	20	m3
No			Min ID	Connection	Sizo & Tuno	Ca (ppm)		System Vol.	30	m3
1	nem	IVIAX OD		Connection	size a Type			Mud & Chemica	ls Addad	
2						Mud Co.				
3						Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole:		DP on Loc:		DP Conn:	2-7/8" IF	VOLUMES	M ³			
DRILLING	OPERATION	S TIME BR	EAKDOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		M/U L/D BHA	2 1/2	RSPP		Shaker Make		FSI
Reaming		Cementing		Wellhead		ST/Min		Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's	7.4/0	Mix mud		Calc Hole Fill		Vol UF (l/min)		
Tripping	1	Test BOPs	7 1/2	W.O GEN		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig	6 1/2	Drill Out Cmt	5 1/2	Wait on services	1	Lst BOP Drill:		O.F. (kg/m3) Hours/Davis		
	0 1/2	Uollo Toolo		Total Hra	24			Boiler Hrs		(to 24:00)
			TE .	Novembe	27	(0000 hrs	2400 hrs)	Doller 113.		(10 24.00)
Erom		Duration		Novembe	1,2006	(0000 nrs -	Z400 nrs)			
0.00	7:30	7.50	Pressure T	est BOPs and	related well	control equir	oment 200 p	si low and 80	0 psi hiah. F	unction test
			accumulato recharge 3	or. Close pipe 8sec.	rams annula	r open HCR:	starting pre	ssure 1500ps	i, drop 200p	si Time to
7:30	10:00	2.50	M/U BHA a	nd run in hole	. Tag cemen	it at 115m				
10:00	15:30	5.50	Drill cemen	t from 115m to	o 155m.					
15:30	16:30	1.00	Wait on me	chanic - moto	r problems					
16:30	18:30	2.00	Service rig	motor						
18:30	23:00	4.50	Service rig	motor						
23:00	0:00	1.00	Pull out of I	nole						
24 HOUR F	orcast :									
Repair rig n	notor									

Flat Bay	#5					REPORT #:	9	DATE:	Nover	nber 3, 2006
DEPTH 24:00:	178	.0 m	PROGRESS	: 3.0	m	Last 24 Hr Rot	ating Time:	2.50 hr	Ave ROP:	1.2 m/hr
OPER 09:00:						FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND .:	Go	od	WEATHER:	Di	rizzel	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	ł	3°C	T.P. MOBILE:	
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	m	ROADS:	G	Good		
	BIT PERF	ORMANCE		SUR\	/EYS	DRILLIN	ig fluid		PUMPS	6
Bit No.	3			112 m	1.00 °	Time		Pump No.	1	
Size (mm)	156			132 m	3.00 °	Depth(m)		Make	Gardner De	enver
Mfg.	Reed			154 m	2.75 °	Density		Model	PY-7	
Туре	SL51H			175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #	ER5587					Vis		SPM	40	
Nozzles	open					PV		Pump Eff.	95%	
From (mKB)	175					ΥΡ O alla		Pump Rate	0.39	1.0-
To (mKB)	178					Gels		Pump Press.	350	kPa
						pH				m/min
	60					VVL (CCS)				m/min
Condition	00					Sand (%)		NOZZIE VEI		III/Sec
Pulled For?						Solids (%)		м	UD & CHEN	
Meters						Oil (%)		Mud Cycle	86	min
m/hr						Pf/Mf		Bottoms Up	9	min
Cum Hrs						MBT		Tanks	30	m3
	I					CI (ppm)		Hole Volume	3	m3
BOTTOMH	OLE ASSEM	BLY				Ca (ppm)		System Vol.	33	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1								Mud & Chemica	als Added:	
2						Mud Co.				
3						Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole:		DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	M°			
DRILLING	OPERATION	S TIME BRE	AKDOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
	0.4/0			Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ fluid	2 1/2	Logging		. ioning						
Drill w/ fluid Drill w/ air	2 1/2	Logging Run Casing		M/U L/D BHA		RSPP		Shaker Make		FSI
Drill w/ fluid Drill w/ air Reaming	2 1/2	Logging Run Casing Cementing		M/U L/D BHA Wellhead		RSPP ST/Min		Shaker Make Shaker Mesh		FSI 180
Drill w/ fluid Drill w/ air Reaming Rm Rathole	2 1/2	Logging Run Casing Cementing WOC		M/U L/D BHA Wellhead Safety Meeting		RSPP ST/Min MACP(kPa)		Shaker Make Shaker Mesh	Desilter	FSI 180 Centrifuge
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	2 1/2	Logging Run Casing Cementing WOC NU BOP's		M/U L/D BHA Wellhead Safety Meeting Mix mud		RSPP ST/Min MACP(kPa) Calc Hole Fill		Shaker Make Shaker Mesh Vol UF (l/min)	Desilter	FSI 180 Centrifuge
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping	4 1/4	Logging Run Casing Cementing WOC NU BOP's Test BOPs	1	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN		RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill		Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	Desilter	FSI 180 Centrifuge
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig	4 1/4	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt	1	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services	1	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:		Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3)	Desilter	FSI 180 Centrifuge
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig	2 1/2 4 1/4 15	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST	1	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services	1 1/4	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill		Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	Desilter	FSI 180 Centrifuge
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service	4 1/4 15	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	1	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs	1 1/4 24	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill		Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S	2 1/2 4 1/4 15 SUMMARY F(Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA'	1 re :	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe	1 1/4 24 r 2, 2006	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs -	2400 hrs)	Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From	2 1/2 4 1/4 15 SUMMARY F(To	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA' Duration	1 IE:	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe	1 1/4 24 r 2, 2006	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs -	2400 hrs) Event	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
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Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:00	2 1/2 4 1/4 15 50000000000000000000000000000000000	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA' Duration 1.00 2.00	1 TE : Continued to Worked on	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe to pull out of he rig motor	1 1/4 24 r 2, 2006 ble to surface	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs -	2400 hrs) Event	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
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Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:00 3:00	2 1/2 4 1/4 15 50000000000000000000000000000000000	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA' Duration 1.00 2.00 2.00	1 TE : Continued 1 Worked on Ran in hole	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe to pull out of he rig motor e with tricone b	1 1/4 24 r 2, 2006 ble to surface	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs -	2400 hrs) Event	Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
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Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig 24 HOUR S From 0:00 1:00 3:00 5:00 12:00	2 1/2 4 1/4 15 300 1:00 3:00 5:00 12:00 14:00	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools C THE DA' Duration 1.00 2.00 2.00 7.00 2.00	1 Continued to Worked on Ran in hole Worked on Wait on fue	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe to pull out of he rig motor with tricone b rig motor removed	1 1/4 24 r 2, 2006 ble to surface it.	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - E e	2400 hrs) Event	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
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Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:00 3:00 12:00 14:00 20:00 22:15 22:30 22:45	2 1/2 4 1/4 15 3:00 1:00 3:00 5:00 12:00 14:00 20:00 22:15 22:30 22:45 22:45	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA' Duration 1.00 2.00 2.00 2.00 6.00 2.25 0.25 0.25 1.00	1 Continued 1 Worked on Ran in hole Worked on Wait on fue Installed fue Drilled com Held BOP of Drilled from	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe to pull out of he rig motor with tricone b rig motor remove a pump el pump and cl ent from 155 M drill piror to drill 175 M to 178 72 M and conc	1 1/4 24 r 2, 2006 ole to surface it. pving fuel pu leaned tanks A to 175 M ling out shoe M. duct formatic	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - E E mp.	2400 hrs) Event	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:		FSI 180 Centrifuge (to 24:00)
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Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:00 3:00 12:00 14:00 20:00 22:15 22:30 22:45 23:45	2 1/2 4 1/4 15 3:00 5:00 12:00 14:00 20:00 22:15 22:30 22:45 23:45 0:00	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA' Duration 1.00 2.05 0.2	1 FE : Continued 1 Worked on Ran in hole Worked on Wait on fue Installed fuu Drilled com Held BOP of Drilled from Pulled to 1 gradient of Pulled out of	MUL/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe to pull out of he rig motor with tricone b rig motor remo el pump and cl ent from 155 M drill piror to drill 175 M to 178 72 M. and conc 19.7kPa/m gra of hole to chan	1 1/4 24 r 2, 2006 ole to surface it. oving fuel pu eaned tanks A to 175 M ling out shoe M. duct formatic adient. ge to air drill	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - E mp.	2400 hrs) Event Event Event	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:00 3:00 12:00 14:00 20:00 22:15 22:30 22:45 23:45	2 1/2 4 1/4 15 3:00 1:00 1:00 12:00 14:00 20:00 22:15 22:30 22:45 22:45 23:45 0:00	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA' Duration 1.00 2.05 0.2	1 FE : Continued 1 Worked on Ran in hole Worked on Wait on fue Installed fue Drilled com Held BOP of Drilled form Pulled to 1 gradient of Pulled out of	MU L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe to pull out of he rig motor with tricone b rig motor remo el pump and cl ent from 155 N drill piror to drill 175 M to 178 72 M. and conc 19.7kPa/m gra of hole to chan	1 1/4 24 r 2, 2006 ole to surface it. oving fuel pu eaned tanks A to 175 M ling out shoe M. duct formatic adient. ge to air drill	RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - E mp.	2400 hrs) Event Event Event	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
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Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig 24 HOUR S From 0:00 1:00 12:00 14:00 20:00 22:15 22:30 22:45 23:45 24 HOUR F	2 1/2 4 1/4 15 3:00 5:00 12:00 14:00 22:15 22:45 22:45 23:45 0:00 	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA' Duration 1.00 2.25 0.25 0.25 1.00 0.25 0	1 Continued I Worked on Ran in hole Worked on Wait on fue Installed fun Drilled cem Held BOP of Drilled from Pulled to 17 gradient of Pulled out of Pulled o	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe to pull out of he rig motor with tricone b rig motor remo el pump and cl ent from 155 N drill piror to dril 175 M to 178 72 M. and cond 19.7kPa/m gra of hole to chan	1 1/4 24 r 2, 2006 ole to surface it. pving fuel pu leaned tanks A to 175 M ling out shoe M. duct formatic adient. ge to air drill	RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - E mp.	2400 hrs) Event	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig 24 HOUR S From 0:00 12:00 12:00 14:00 20:00 22:15 22:30 22:45 23:45 23:45	2 1/2 4 1/4 15 3:00 5:00 12:00 14:00 22:15 22:45 22:45 23:45 0:00 5:00 0:00	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools DR THE DA' Duration 1.00 2.25 0.25 0.25 1.00 0.25 0	1 Continued I Worked on Ran in hole Worked on Wait on fue Installed fum Held BOP of Drilled form Pulled to 17 gradient of Pulled out of Pulled	M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Total Hrs Novembe to pull out of he rig motor e with tricone b rig motor remo el pump and cl ent from 155 N drill piror to dril 175 M to 178 72 M. and cond 19.7kPa/m gra of hole to chan	1 1/4 24 r 2, 2006 ole to surface it. pving fuel pu ling out shoe M. duct formatic adient. ge to air drill	RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - E mp.	2400 hrs) Event	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)

Flat Bay	#5					REPORT #:	10	DATE:	Noven	nber 4, 2006
DEPTH 24:00:	280	.0 m	PROGRESS:	102.	.0 m	Last 24 Hr Rot	tating Time:	12.25 hr	Ave ROP:	8.3 m/hr
OPER 09:00:			1			FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	Dr	izzel	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	3°C	T.P. MOBILE:	
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	3 m	ROADS:	G	ood		1
				10		ū				
	BIT PERFO	ORMANCE		SUR	VEYS	DRILLIN	IG FLUID		PUMPS	
Bit No.	4	3RR		112 m	1.00 °	Time		Pump No.	1	
Size (mm)		156mm		132 m	3.00 °	Depth(m)		Make	Gardner De	enver
Mfg. -	Ain Incont	Reed		154 m	2.75 °	Density		Model	PY-7	
Type	Air insert	SL51H		175 m	3.50	Mud Grad		Liner X Stk	0 40	
Serial #								SPM	40	
From (mKB)	178	280						Pump En.	0.30	
To (mKB)	280	200				Gels		Pump Press	350	kPa
Hrs on Bit	12 1/4					рН		Drillpipe AV	000	m/min
WOB (daN)	, .					WL (cc's)		Drillcollar AV		m/min
RPM	20					Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?	Water					Solids (%)		MU	JD & CHEM	ICALS
Meters	102					Oil (%)		Mud Cycle	77	min
m/hr	8.33					Pf/Mf		Bottoms Up		min
Cum Hrs	12 1/4					MBT		Tanks	30	m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEM	BLY				Ca (ppm)		System Vol.	30	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1	Bit							Mud & Chemica	Is Added:	
2	Hammer					Mud Co.				
3	Stab				4 5"	Mud Man				
BHA Length:	10.17	Hook Load:		DP size	4.5 3-1/2" IE	wud Op @				
Avail WOB.		JIS DF RACKS	00	DC Conn.	0 7/0" IF		M ³			
Jts DP in hole:		DP on Loc:	99	DP Conn:	2-1/8 IF	VOLUMES	IVI			
	OPERATION			Move Rig		l osses		Mud Daily Cost		
Drill w/ fluid				Fishing						
Drill w/ air	12 1/4	Run Casing		M/UT/D BHA		RSPP		Shaker Make		FSI
Reaming	, .	Cementing		Wellhead		ST/Min		Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)		-
Tripping	11 1/4	Test BOPs		W.O GEN		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services		Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST				Calc Hole Fill		Hours/Days		
Rig Service	1/2	Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY F	OR THE DA	TE :	Novembe	er 3, 2006	(0000 hrs -	2400 hrs)			
From	То	Duration				E	Event			
0:00	2:30	2.50	Continued	pulling out to c	change bit					
2:30	3:45	1.25	Run in hole	with hammer	bit					
3:45	4:30	0.75	Drill from 1	/8 to 180 m	and hit					
4:30	7:00	2.50		neck nammer	and bit					
7:00	8:30	11.50	RIFI Drill 156 mi	m hole from 1	90 m to 290	~				
20:00	20.00	2 75	Excessive		to change to	tricone bit/di	rilling fluid			
22:45	22:45	0.50	Rig service		to change to					
23:15	0:00	0.75	Make up Bl	HA and run in	hole to 280 r	m				
_0.10	0.00	0.10								
24 HOUR F	orcast :									
Drill 156 mr	n hole									

	# F							1		
гат вау	#5					REPORT #:	11	DATE:	Nover	nber 5, 2006
DEPTH 24:00:	330.	0 m	PROGRESS	50.0) m	Last 24 Hr Ro	tating Time:	8.75 hr	Ave ROP:	5.7 m/hr
OPER 09:00:	Drill 156mm	hole				FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	Di	rizzel	TOOLPUSH:	
CUM COST.			RIG / RIG #·	Indersoll R	and RD10		8	3°C		
EORMATION:	Anhy	drite	KB ELEV:	3 3	m	POADS:		bood	THE MODILE.	
I ORMATION.	7 (111)	unto	N.D. LLLV	0.0	, ,,,,	INOADO.				1
								1		
	BIT PERFO	DRMANCE		SUR\	/EYS	DRILLIN	IG FLUID		PUMPS	5
Bit No.	3RR			112 m	1.00 °	Time		Pump No.	1	
Size (mm)	156			132 m	3.00 °	Depth(m)		Make	Gardner D	enver
Mfg.	Reed			154 m	2.75 °	Density		Model	PY-7	
Туре	SL51H			175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #	FR5587			316 m	5 00 °	Vis		SPM	40	
Nozzles	open			0.0.11	0.00	PV/		Bump Eff	95%	
	200								0.20	
	200							Pump Rate	0.39	15
To (MKB)	330					Gels		Pump Press.	350	кРа
Hrs on Bit	9					pН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		М	JD & CHEN	IICALS
Motors	50					Oil (%)		Mud Cycle	93	min
ivieter 3	57								16	min
m/nr	5.7					Pt/IVIt		Bottoms Up	10	min
Cum Hrs	9					MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	6	m3
BOTTOMH	OLE ASSEM	IBLY				Ca (ppm)		System Vol.	36	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1	Bit	6.375-in						Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.		40 sxs fisherv s	alt	
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man		6 sxs Federal S	urpreme	
BHA Length:	13 39	Hook Load:			4 5"	Mud Up @		A sys Saw Dust		
And Length.	10.00	Hook Load.		DI 3126	2 1/2" IE	inida op @		2 ovo Colluft	ako	
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2 IF		3	5 5X5 Cellula	ake	
					>					
Jts DP in hole:	29	DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	M	1 sxs QuickS	Seal	
Jts DP in hole: DRILLING	29 OPERATION	DP on Loc:	99 EAKDOWN	DP Conn:	2-7/8" IF	VOLUMES Water added	, M°	1 sxs Quicks Mud Daily Cost	Seal	
Jts DP in hole: DRILLING RU / TO	29 OPERATION	DP on Loc: S TIME BR Survey	99 EAKDOWN 1/2	DP Conn: Move Rig	2-7/8" IF	VOLUMES Water added Losses	<u>,</u> M ³	1 sxs Quicks Mud Daily Cost Mud Cum Cost	Seal	
Jts DP in hole: DRILLING RU / TO Drill w/ fluid	29 OPERATION 8 3/4	DP on Loc: S TIME BR Survey	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing	2-7/8" IF	VOLUMES Water added Losses WELL CO		1 sxs Quicks Mud Daily Cost Mud Cum Cost	Seal	
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air	29 OPERATION 8 3/4	DP on Loc: S TIME BR Survey Logging Bun Casing	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/LL /D BHA	2-7/8" IF	VOLUMES Water added Losses WELL COM	M [°] NTROL 150	1 sxs Quicks Mud Daily Cost Mud Cum Cost SOLIDS CO Sbaker Make	Seal	FSI
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Peaming	29 OPERATION 8 3/4	DP on Loc: S TIME BR Survey Logging Run Casing Comenting	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead	2-7/8" IF	VOLUMES Water added Losses WELL COM RSPP 1	M NTROL 150 60	1 sxs Quicks Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	Seal	FSI 180
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming	29 OPERATION 8 3/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead	2-7/8" IF	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1	NTROL 150 60	1 sxs Quicks Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL	FSI 180
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	29 OPERATION 8 3/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting	2-7/8" IF	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2	NTROL 150 60 125 20	1 sxs QuickS Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	Seal NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	29 OPERATION 8 3/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud	2-7/8" IF	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2	M ³ NTROL 150 60 125 30	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	Seal NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping	29 OPERATION 8 3/4 3 3/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN	2-7/8" IF	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa)	NTROL 150 60 125 30	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	Seal NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig	29 OPERATION 8 3/4 3 3/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP'S Test BOPS Drill Out Cmt	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services	2-7/8" IF	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill	NTROL 150 60 125 30	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (/min) U.F. (kg/m3) O.F. (kg/m3)	NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig	29 OPERATION 8 3/4 3 3/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill	2-7/8" IF 2 8 3/4	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill	NTROL 150 60 125 30	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service	29 OPERATION 8 3/4 3 3/4 1/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs	2-7/8" IF 2 8 3/4 24	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	NTROL 150 60 125 30 02-Nov-06	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR \$	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA	99 EAKDOWN 1/2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	2-7/8" IF 2 8 3/4 24 er 4, 2006	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	NTROL 150 60 125 30 02-Nov-06 2400 hrs)	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY Fr	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration	99 EAKDOWN 1/2 1/2 TE :	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November	2-7/8" IF 2 8 3/4 24 24 24	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	M ³ NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2 50	99 EAKDOWN 1/2 TE :	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	2-7/8" IF 2 8 3/4 24 er 4, 2006	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:20	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F 2:30 2:30	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00	99 EAKDOWN 1/2 TE : Continue to Drill from 2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe D RIH with Trice 80m to 28200	2 2 8 3/4 24 er 4, 2006	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30 3:30 5:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00	99 EAKDOWN 1/2 TE : Continue to Drill from 2	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November D RIH with Trice 80m to 282cm.	2-7/8" IF 2 8 3/4 24 er 4, 2006 Encounter 9 2828	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - 280m 00% losses.	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:22	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F 2:30 3:30 5:00 0.45	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.50	99 EAKDOWN 1/2 TE : Continue to Drill from 2 Mix and sp DOULL	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November 0 RIH with Trice 80m to 282m. ot LCM pill at	2-7/8" IF 2 8 3/4 24 er 4, 2006 cone BHA to Encounter 9 282m. 222	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - 280m 30% losses.	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 0:15	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30 3:30 5:00 6:15 7 55	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.25 4.25	99 EAKDOWN 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November 0 RIH with Trice 80m to 282m. ot LCM pill at asing shoe fro	2-7/8" IF 2 8 3/4 24 er 4, 2006 cone BHA to Encounter 9 282m. m 282m to 1	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - 280m 20% losses.	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rejair Rig Rejair Rig 24 HOUR S From 0:00 2:30 3:30 5:00 6:15	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY Fo 2:30 3:30 5:00 6:15 7:30	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP'S Test BOP'S Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.50 1.25 1.25	99 EAKDOWN 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe D RIH with Tric 80m to 282m. ot LCM pill at asing shoe fro and monitor	2-7/8" IF 2 8 3/4 24 er 4, 2006 encounter 9 282m. m 282m to 1 losses. 50%	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - 280m 00% losses. 75m returns.	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY Fr To 2:30 3:30 5:00 6:15 7:30 9:30	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.50 1.25 2.00	99 EAKDOWN 1/2 TTE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November D RIH with Trice 80m to 282m. ot LCM pill at asing shoe froc and monitor fluid volume in	2-7/8" IF 2 8 3/4 24 24 24 24 24 24 24 26 27 28 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - 1280m 00% losses. 75m returns. tank.	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F 2:30 3:30 5:00 6:15 7:30 9:30 15:30	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.500 1.20 1.25 2.00 6.00	99 EAKDOWN 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November D RIH with Trice 80m to 282m. ot LCM pill at asing shoe froe and monitor fluid volume in ot two LCM pil	2 8 3/4 24 er 4, 2006 Encounter 9 282m. m 282m to 1 losses. 50% n circulating Ils at 200m.	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - 280m 00% losses. 75m returns. tank. Achieve 100	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
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JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.25 1.25 2.00 6.00 5.50 0.25	99 EAKDOWN 1/2 1/2 TE : Continue to Drill from 2 Mix and sp POOH too co Top fill hole Build brine Mix and sp Drill 156mr Rig Service	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe D RIH with Trice 80m to 282m. ot LCM pill at asing shoe from 28 and monitor fluid volume in ot two LCM pil n hole from 28	2 8 3/4 24 er 4, 2006 cone BHA to Encounter 9 282m. om 282m to 1 losses. 50% n circulating Ils at 200m. 30m to 318m	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E280m 00% losses. 75m returns. tank. Achieve 100	M ³ NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event % returns	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
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Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY Fr 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.50 1.25 2.00 6.00 5.50 0.25 2.00 0.50 0.25	99 EAKDOWN 1/2 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp Drill 156mr Rig Service Drill 156mr	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November D RIH with Trice 80m to 282m. ot LCM pill at asing shoe frco and monitor fluid volume in ot two LCM pil n hole from 31 in inclination at a inclination at	2 8 3/4 24 24 24 24 24 24 24 24 24 25 282m. 292m. 2920	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - 280m 30% losses. 175m returns. tank. Achieve 100	M ⁷ NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event % returns	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.25 1.25 2.00 6.00 5.50 0.25 2.00 0.50 0.25	99 EAKDOWN 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp Drill 156mr Rig Service Drill 156mr Survey hol Drill 156mr	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembee D RIH with Trice 80m to 282m. ot LCM pill at asing shoe from and monitor fluid volume in ot two LCM pil n hole from 31 e inclination at n hole from 32	2 8 3/4 24 er 4, 2006 cone BHA to Encounter 9 282m. m 282m to 1 losses. 50% n circulating lls at 200m. 30m to 318m 8m to 325m t 316m. 25m to 330m	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - 280m 280m 280m 280m 175m returns. tank. Achieve 100	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event % returns	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:45 23:45	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.500 1.25 1.25 2.000 6.00 5.50 0.25 2.00 0.50 0.25	99 EAKDOWN 1/2 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp Drill 156mr Rig Service Drill 156mr Survey hole Drill 156mr	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembee D RIH with Trice 80m to 282m. ot LCM pill at asing shoe from 2 and monitor fluid volume in ot two LCM pil n hole from 31 e inclination at n hole from 32	2 8 3/4 24 er 4, 2006 cone BHA to Encounter S 282m. m 282m to 1 losses. 50% n circulating lls at 200m. 30m to 318m 8m to 325m t 316m. 25m to 330m	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - 280m 90% losses. 75m returns. tank. Achieve 100	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.25 1.25 2.00 6.00 5.50 0.25 2.00 0.25	99 EAKDOWN 1/2 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp Drill 156mr Rig Service Drill 156mr Survey hole Drill 156mr	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembee D RIH with Trice 80m to 282m. ot LCM pill at asing shoe from a and monitor fluid volume in ot two LCM pil n hole from 31 e inclination at n hole from 32	2 8 3/4 24 er 4, 2006 cone BHA to Encounter 5 282m. m 282m to 1 losses. 50% n circulating lls at 200m. 30m to 318m 8m to 325m t 316m. 25m to 330m	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - 280m 280m 20% losses. 75m returns. tank. Achieve 100	M ^o 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.50 1.25 2.00 6.00 5.50 0.25 2.00 0.50 0.25	99 EAKDOWN 1/2 1/2 TTE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp Drill 156mr Rig Service Drill 156mr Survey hol Drill 156mr	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe D RIH with Trice 80m to 282m. ot LCM pill at asing shoe from a and monitor fluid volume in ot two LCM pil n hole from 32 an hole from 32	2 8 3/4 24 ar 4, 2006 ar 4, 2006 cone BHA to Encounter 9 282m. m 282m to 1 losses. 50% n circulating Ils at 200m. 30m to 318m 8 m to 325m t 316m. 25m to 330m	VOLUMES Water added Losses WELL COP RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(KPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - 280m 00% losses. 75m returns. tank. Achieve 100	NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jis DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:15 23:15 23:45 23:45	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F 7 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.25 2.00 6.00 5.50 0.25 2.00 0.50 0.25	99 EAKDOWN 1/2 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp Drill 156mr Rig Service Drill 156mr Survey hol Drill 156mr	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe D RIH with Trice 80m to 282m. ot LCM pill at asing shoe from 28 and monitor fluid volume in ot two LCM pil n hole from 32 an hole from 32	2-7/8" IF 2 8 3/4 24 er 4, 2006 cone BHA to Encounter 9 282m. o 1005865.50% n circulating 1005865.50% n circulating 1005865.50% n circulating 1007 to 318m 8 to 325m to 330m	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(KPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - I 280m 00% losses. 75m returns. tank. Achieve 100	M NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event % returns	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jis DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S 7:30 9:30 15:30 21:15 23:15 23:45 23:45 24 HOUR F	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY F To 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:15 23:45 0:00 	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.50 1.25 1.25 2.00 6.00 5.50 0.25 2.00 0.50 0.25	99 EAKDOWN 1/2 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp Drill 156mr Rig Service Drill 156mr Survey hol Drill 156mr	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe D RIH with Trice 80m to 282m. ot LCM pill at asing shoe from 282 and monitor fluid volume in ot two LCM pil n hole from 32 and nole from 32	2 8 3/4 24 er 4, 2006 cone BHA to Encounter 9 282m. or losses. 50% n circulating IIs at 200m. 1 30m to 318m to 325m to 330m	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 280m 00% losses. 75m returns. tank. Achieve 100	M ³ NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event % returns	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
JIS DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45 23:45 24 HOUR F Drill 156 mr	29 OPERATION 8 3/4 3 3/4 1/4 SUMMARY Fr 2:30 3:30 5:00 6:15 7:30 9:30 15:30 21:00 21:15 23:15 23:45 0:00 5:00 0:01 0:01 0:01 0:01 0:01 0:01 0:00 0:01 0:00 0:0	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 2.50 1.00 1.50 1.25 2.00 6.00 5.50 0.25 2.00 0.550 0.25 2.00 0.50	99 EAKDOWN 1/2 TE : Continue to Drill from 2 Mix and sp POOH to c Top fill hole Build brine Mix and sp Drill 156mr Rig Service Drill 156mr Survey hol Drill 156mr	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November D RIH with Trice 80m to 282m. ot LCM pill at asing shoe froc and monitor fluid volume in ot two LCM pil n hole from 31 in clination at n hole from 32	2 8 3/4 24 24 24 24 24 24 24 24 24 25 282m. 292m. 2920	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - I 280m 0% losses. 75m returns. tank. Achieve 100	M ⁷ NTROL 150 60 125 30 02-Nov-06 2400 hrs) Event % returns	1 sxs QuickS Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Seal NTROL Desilter	FSI 180 Centrifuge (to 24:00)
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Flat Bay	#5					REPORT #:	12	DATE:	Nover	nber 6, 2006
DEPTH 24:00:	366.	0 m	PROGRESS	36.0) m	Last 24 Hr Ro	tating Time:	19.00 hr	Ave ROP:	1.9 m/hr
OPER 06:00:	Drill 156mm	hole				FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
				Go	od	WEATHER	S	unny		
D/ (121 0001)			INCLE OND.							
CUM COST:			RIG / RIG #:	Ingersoll H	and RD10	TEMP.:		3°C	T.P. MOBILE:	
FORMATION:	Sa	alt	K.B. ELEV.:	3.3	m	ROADS:	Ċ	Good		
	BIT PERFO	ORMANCE		SUR\	/EYS	DRILLIN	IG FLUID	1	PUMPS	5
Bit No.	3RR	5	1	112 m	1.00 °	Time	19:30	Pump No.	1	
Size (mm)	156	156		132 m	3.00 °	Depth(m)	366	Make	Gardner D	enver
Mfg	Rood	Smith		154 m	2 75 °	Depai(III)	1180	Madel		CITYCI
wig.	Reeu	Smin		134 11	2.75	Density	1109	IVIODEI	F1-7	
Гуре	SL51H	SX30		175 m	3.50 °	Mud Grad		Liner X Stk	6	
Serial #	ER5587	PB2404		316 m	5.00 °	Vis		SPM	40	
Nozzles	open	open		341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	280	366				YP		Pump Rate	0.39	
To (mKB)	366					Gels		Pump Press.	350	kPa
Hrs on Bit	27.75					рH	12	Drillpipe AV		m/min
						WI (cc's)		Drilloollor AV		m/min
	00									
RPIVI	90 TO always					Filler Cake		Nozzie vei		m/sec
Condition	nuc, plugged	nozzies				Sand (%)				
Pulled For?	ROP		1			Solids (%)		M	UD & CHEN	IICALS
Meters	86					Oil (%)		Mud Cycle	95	min
m/hr	3.1					Pf/Mf		Bottoms Up	18	min
Cum Hrs	27.75					мвт		Tanks	30	m3
	_					CI (ppm)		Hole Volume	7	m3
BOTTOMU			1	1		0. (pp)				
вопомп			1.1		.	Ca (ppm)	100	System Vol.	37	m3
NO.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)	130			
1	Bit	6.375-in						Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	13.39	Hook Load:	•	DP size	4.5"	Mud Up @				
Avail WOB		Its DP Racks		DC Conn:	3-1/2" IF					
	~~		~~		o		M ³			
Ite DP in hole:	.79	DD and L and	1 11 1	DD Conn.	17-7/8" IF		101			
JIS DI IITTOIE.	20	DP on Loc:	99	DP Conn.	Z-1/0 II	VOLUMILS				
DRILLING	OPERATION	S TIME BR		DP Conn.	2-170 11	Water added	0	Mud Daily Cost	i	
DRILLING RU/TO	OPERATION	Survey	99 EAKDOWN 1/2	Move Rig	2-1/0 11	Water added	0	Mud Daily Cost Mud Cum Cost	<u>i</u>	
DRILLING RU / TO Drill w/ fluid	OPERATION	S TIME BR Survey	EAKDOWN 1/2	Move Rig Fishing	2-110 11	Water added Losses	0 0 NTROL	Mud Daily Cost Mud Cum Cost	NTROL	
DRILLING RU / TO Drill w/ fluid Drill w/ air	OPERATION 19	S TIME BR Survey Logging Run Casing	EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA		Water added Losses WELL CON	0 0 NTROL 150	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	FSI
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming	OPERATION 19	S TIME BR Survey Logging Run Casing	EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead		Water added Losses WELL CON RSPP 1 ST/Min 1	0 0 NTROL 150 60	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mash	NTROL	FSI 180
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming	OPERATION 19	Survey Logging Run Casing Cementing	EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead		Water added Losses WELL COM RSPP 1 ST/Min 1	0 0 NTROL 150 60	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mash	NTROL	FSI 180
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	19	STIME BR Survey Logging Run Casing Cementing WOC	55 EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2	0 0 NTROL 150 60 125 20	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	OPERATION 19	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's	99 EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2	0 0 NTROL 150 60 125 30	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping	OPERATION 19 4 1/4	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs	53 EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa)	0 0 VTROL 150 60 125 30 1434	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig	OPERATION 19 4 1/4	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt	EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill	0 0 NTROL 150 60 125 30 1434	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3)	NTROL Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig	OPERATION 19 4 1/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST	EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill	0 0 VTROL 150 60 125 30 1434	Mud Daily Cost Mud Cum Cost SolLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	Desilter	FSI 180 Centrifuge
Drill LING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service	OPERATION 19 4 1/4 1/4	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	53 EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs	24	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	0 0 NTROL 150 60 125 30 1434 02-Nov-06	Mud Daily Cost Mud Cum Cost SolIDS CO Shaker Make Shaker Mesh Vol UF (//min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOLIP C	0PERATION 19 4 1/4 1/4	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	55 EAKDOWN 1/2	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs	24 24	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	0 0 VTROL 150 60 125 30 1434 02-Nov-06	Mud Daily Cost Mud Cum Cost SolIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig 24 HOUR S	0PERATION 19 4 1/4 1/4 5UMMARY F	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA	53 EAKDOWN 1/2 1/2	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	24 24 24 24	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs)	Mud Daily Cost Mud Cum Cost SolIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als Drin Hole. DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0.000	OPERATION 19 4 1/4 1/4 SUMMARY F To 2000	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration	33 EAKDOWN 1/2 1/2 TE :	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	24 24 24 24	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 NTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als Dr in Hole. DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:000	0PERATION 19 4 1/4 1/4 5UMMARY Fo 3:30 3:30	Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50	TE :	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 33	24 24 24 27 5, 2006 30m to 341m	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 NTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING DRILLING RU / TO Drill W/ fluid Drill W/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30	0PERATION 19 4 1/4 1/4 5UMMARY For 3:30 4:00	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50	TE : Drill 156mr	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 33 e inclination at	24 er 5, 2006 30m to 341m t 341m	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als DrilLLING DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00	0PERATION 19 4 1/4 1/4 3:30 4:00 19:30	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50	TE : Drill 156mr Survey hol	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 33 e inclination a n hole from 34	24 er 5, 2006 30m to 341m t 341m 11m to 366m	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als Dri Influe. DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30	OPERATION 19 4 1/4 1/4 SUMMARY Fo 3:30 4:00 19:30 20:15	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75	TE : Drill 156mr Survey hol Drill 156mr POOH fron	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 33 e inclination a n hole from 34 n 365m to 366	24 er 5, 2006 30m to 341m t 341m 11m to 366m im	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 NTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Ja Drinnee DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15	OPERATION 19 4 1/4 1/4 5UMMARY Fr 50 4:00 19:30 20:15 20:30	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 33 e inclination a n hole from 34 n 365m to 366	24 24 24 27 5, 2006 30m to 341m 11m to 366m im	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost Solid Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30	OPERATION 19 4 1/4 1/4 5UMMARY F To 3:30 4:00 19:30 20:15 20:30 22:30	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a: n hole from 32 e 365m to 366 > POOH from	24 er 5, 2006 30m to 341m t 341m i1m to 366m m 249m to 0m	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SolIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Ja DrilLlING DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	0PERATION 19 4 1/4 1/4 5UMMARY F To 3:30 4:00 19:30 20:15 20:30 22:30 0:00	IDP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 14	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe in hole from 33 e inclination ai n hole from 34 n 365m to 366 e DPOOH from	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 NTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als Di Minde. DRILLING RU / TO Drill W/ fluid Drill W/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Repair Rig 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	23 OPERATION 19 4 1/4 1/4 3:30 4:00 19:30 20:15 20:30 22:30 0:00	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 11	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a: n hole from 32 n 365m to 366 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als DrillLING DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Repair Rig Repair Rig 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	Image: 20 minipage 0PERATION 19 4 1/4 1/4 1/4 SUMMARY F0 3:30 4:00 19:30 20:15 20:30 22:30 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 1	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination ai n hole from 34 n 365m to 366 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m t 341m H1m to 366m m 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(KPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als Dri Influe. DRILLING RU / TO Drill W/ fluid Drill W/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Repair Rig Repair Rig 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	OPERATION 19 4 1/4 1/4 SUMMARY F To 3:30 4:00 19:30 20:15 20:30 22:30 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 15	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 33 e inclination a n hole from 34 n 365m to 366 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m t 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Jas Dr in hole. DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ fluid Drill w/ fluid Drill w/ fluid Drill w/ fluid Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	OPERATION 19 4 1/4 4 1/4 1/4 3UMMARY F 0 3:30 4:00 19:30 20:15 20:30 22:30 0:00	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hindle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 1	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a n hole from 32 n 365m to 366 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (//min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Ja Drinnee. DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ fluid Drill w/ fluid Drill w/ fluid Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	OPERATION 19 4 1/4 4 1/4 1/4 5UMMARY Fd 50 19:30 20:15 20:30 22:30 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 1	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembee n hole from 32 e inclination a n hole from 32 e inclination a n hole from 32 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost Solid Control Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Als Di Minde. DRILLING RU / TO Drill W/ fluid Drill W/ fluid Drill W/ air Reaming Rem Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	0PERATION 19 19 4 1/4 1/4 1/4 5UMMARY F 50 3:30 4:00 19:30 20:15 20:30 22:30 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 11	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a: n hole from 34 n 365m to 366 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als DrilLLING DRILLING RU / TO Drill W/ fluid Drill W/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Repair Rig 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	23 OPERATION 19 4 1/4 1/4 3:30 4:00 19:30 20:15 20:30 22:30 0:00	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 19	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a: n hole from 32 n 365m to 366 e D POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Als DrillLING DRILLING RU / TO Drill W/ fluid Drill W/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Repair Rig Repair Rig 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	OPERATION 19 4 1/4 1/4 SUMMARY F To 3:30 4:00 19:30 20:15 20:30 22:30 0:00	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 1	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination ai n hole from 34 n 365m to 366 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m t 341m 11m to 366m m 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(KPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
Jas Drimites DRILLING RU / TO Drill W/ fluid Drill W/ fluid Drill W/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Repair Rig Repair Rig Repair Rig 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	0PERATION 19 4 1/4 1/4 1/4 3UMMARY F 0 3:30 4:00 19:30 20:15 20:30 22:30 0:00	DP on Loc: S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 19	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 33 e inclination a n hole from 34 n 365m to 366 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost Solid Cum Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jas Drin Hole. DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30	OPERATION 19 4 1/4 1/4 3UMMARY F 3:30 4:00 19:30 20:15 20:30 22:30 0:00	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hindle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 19	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a n hole from 32 n 365m to 366 b POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost Solit Cost Shaker Make Shaker Mesh Vol UF (//min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Als Drill Hole. DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30 22:30 22:30	OPERATION 19 19 4 1/4 1/4 1/4 3UMMARY F 0 3:30 4:00 19:30 20:15 20:30 22:30 0:00 0:00 0:00 0:00 0:00 0:	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 11	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a n hole from 32 e inclination a n hole from 32 o POOH from 56mm tricone	24 24 24 27 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost Solid Cum Cost Shaker Make Shaker Mesh Vol UF (//min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING DRILLING RU / TO Drill W/ fluid Drill W/ fluid Drill W/ air Reaming Rem Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 20:35 20:30 22:30 22:30 22:30	OPERATION 19 19 4 1/4 1/4 1/4 5UMMARY F 50 3:30 4:00 19:30 20:15 20:30 22:30 0:00 50 50 50 50 50 50 50 50 50 50 50 50 5	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 11	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a: n hole from 32 e inclination a: n hole from 32 o POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING DRILLING RU / TO Drill W/ fluid Drill W/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig 24 HOUR S From 0:00 3:30 4:00 19:30 20:15 20:30 22:30 22:30 22:30 22:30	OPERATION 19 19 4 1/4 1/4 1/4 5UMMARY F4 T0 3:30 4:00 19:30 20:15 20:30 22:30 0:00 500 500 500 500 500 500 500 500 5	STIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 15.50 0.75 0.25 2.00 1.50	TE : Drill 156mr Survey hol Drill 156mr POOH fron Rig Service Continue to Make up 11	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe n hole from 32 e inclination a: n hole from 32 n 365m to 366 b D POOH from 56mm tricone	24 er 5, 2006 30m to 341m 11m to 366m im 249m to 0m insert bit and	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)

						1		\$		
Flat Bay	#5					REPORT #:	13	DATE:	Nover	nber 7, 2006
DEPTH 24:00:	377.	0 m	PROGRESS:	11.0) m	Last 24 Hr Ro	tating Time:	10.75 hr	Ave ROP:	1.0 m/hr
OPER 06:00:	RIH with tric	one				FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	S	unny	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	;	3°C	T.P. MOBILE:	
FORMATION:	Anhy	drite	K.B. ELEV.:	3.3	m	ROADS:	G	Good		
	,		1			1	1			
	BIT PEREC			SUR\	/FYS	DRILLIN			PUMPS	
Bit No	5	4RR		112 m	1.00 °	Time	23:30	Pump No	1	,
Size (mm)	156	158		132 m	3.00 °	Depth(m)	375	Make	Gardner D	enver
Mfa	Smith	Misson		154 m	2 75 °	Density	air	Model	PY-7	
Type	SX30	Air Insert		175 m	3 50 °	Mud Grad	an	Liper X Stk	6"	
Sorial #	PB2404	All moon		316 m	5.00 °	Vic			40	
Nozzles				341 m	7.50 °	PV			95%	
From (mKB)	366			041 m	7.50			Pump Bata	0.39	
	375					T F Gols		Pump Rate	350	kPo
Hra on Bit	10.25					Geis		Pump Press.	330	KFa
	10.25					pn Mil (asis)				m/min
WOB (dain)						VVL (CC'S)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition	DOD					Sand (%)				
Pulled For?	RUP					Solids (%)		IVI		IICALS
Meters	9					Oil (%)		Mud Cycle	96	min
m/hr	0.9					Pf/Mf		Bottoms Up	19	min
Cum Hrs	10.25					MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	/	m3
BOTTOMH	OLE ASSEM	BLY		1 -		Ca (ppm)		System Vol.	37	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)				
1	Bit	6.375-in						Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	13.39	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole:	48	DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	M°			
DRILLING	OPERATION	S TIME BR	EAKDOWN	°	•	Water added	0	Mud Daily Cost	t	
RU / TO		Survey		Move Rig		Losses	0	Mud Cum Cost		
Drill w/ fluid	10 1/4	Logging		Fishing		WELL CON	NTROL	SOLIDS CO	NTROL	
Drill w/ air	1/2	Run Casing		M/U L/D BHA		RSPP 1	150	Shaker Make	1	FSI
Reaming	3	Cementing		Wellhead		ST/Min 1	60	Shaker Mesh		180
Rm Rathole	-	WOC		Safety Meeting		RSPP 2	125		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		ST/Min 2	30	Vol UF (I/min)	Doomor	continugo
Tripping	10	Test BOPs		WOGEN		MACP(kPa)	1434	U = (kq/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services		Calc Hole Fill		O F (kg/m3)		
Repair Rig		DST		Mix I CM Pill		Act Hole Fill		Hours/Davs		
Rig Service	1/4	Hodle Tools		Total Hrs	24		02-Nov-06	Boiler Hrs:		(to 24:00)
			<u> </u> TE -	Totarris	2.4	Lat BOT DIT.	021100000	Bolier Firs.		(10 24.00)
24 HOUR S				Novembe	er 6, 2006	(0000 hrs -	2400 hrs)			
From	10	Duration	Cantinus	DILL 1996 192		E	zvent			
0:00	1:30	1.50	Continue to	RIH with trice	one to 366m					
1:30	6:45	5.25		noie from 36	00m to 370m					
6:45	/:00	0.25	Rig Service) - h - l - () - =	0					
7:00	12:00	5.00		n noie from 37	UM to 3/5M					
12:00	15:30	3.50	POOH to s	urtace for air h	hammer		NA F: "			
15:30	20:30	5.00	M/U air har	nmer BHA an	d rotating he	ad.RIH to 32	20m. Blow fl	uid out of hole	e at discrete	intervals.
20:30	23:30	3.00	Ream hole	from 320m to	375m					
23:30	0:00	0.50	Drill 158mn	n hole fro 375	m to 377m					
24 HOUR F	orcast :									
POOH for 1	ricone bit an	d drill 156 m	m hole							

						1		1		
Flat Bay	#5					REPORT #:	14	DATE:	Nover	mber 8, 2006
DEPTH 24:00:	379	.0 m	PROGRESS	2.0) m	Last 24 Hr Ro	tating Time:	3.00 hr	Ave ROP:	0.7 m/hr
OPER 06:00:	Drilling ahea	ad				FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
	J			Go	od		S	unny		
DALLY COOT.			HOLL OND.				J	<u>anniy</u>	TOOLI OON.	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:		3°C	T.P. MOBILE:	
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	5 m	ROADS:	(Good		
	BIT PERF	ORMANCE		SUR\	/EYS	DRILLIN	IG FLUID		PUMPS	\$
Bit No	4RR	5RR	1	112 m	1 00 °	Time	23.30	Pump No	1	
	150	150		122 m	2.00 %	Denth (m)	20.00		Cordnor D	001/07
Size (mm)	100			152 11	3.00	Deptn(m)	379	маке		enver
Mfg.	wisson	Smith		154 m	2.75	Density	1190	Model	P1-7	
Туре	Air Insert	SX30		175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #		PB2504		316 m	5.00 °	Vis		SPM	40	
Nozzles		open		341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	375	377.5				YP		Pump Rate	0.39	
To (mKB)	377.5	379				Gels		Pump Press.	350	kPa
Hrs on Bit	2.00	1.50				рН		Drillpipe AV		m/min
	2.00					MI (cc's)		Drilleollor AV		m/min
										m/mm
RPIVI						Filler Cake		Nozzie vei		m/sec
Condition	good					Sand (%)				
Pulled For?	Water					Solids (%)		M	UD & CHEN	IICALS
Meters	2.5	1.5				Oil (%)		Mud Cycle	96	min
m/hr	1.3	1.0				Pf/Mf		Bottoms Up	19	min
Cum Hrs		11 3/4				мвт		Tanks	30	m3
	1					CI (ppm)		Hole Volume	7	m3
POTTOMU				<u> </u>					27	
BOTTOWIN						Ca (ppm)		System vol.	31	1113
NO.	Item	Max OD	IVIIN ID	Connection 3	Size & Type	Salinity (mS)				
1	Bit	6.375-in						Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.		Celluflake	Federal Supr	emem
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man		Barolift		
BHA Length:	13.39	Hook Load:		DP size	4.5"	Mud Up @		Fine sawdust		
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF			Soda Ash		
	40		00				м ³	Outleast		
Jts DP in noie:	40	DP on Loc:	99	DP Conn:	2-1/0 IF	VOLUMES		QuikSeai		
							£			
DRILLING	OPERATION	IS TIME BR	EAKDOWN			Water added	0	Mud Daily Cost		
DRILLING RU / TO	OPERATION	IS TIME BR Survey	EAKDOWN	Move Rig		Water added Losses	0 0	Mud Daily Cost Mud Cum Cost		
DRILLING RU / TO Drill w/ fluid	1 1/2	IS TIME BR Survey Logging	EAKDOWN	Move Rig Fishing		Water added Losses WELL CON	0 0 NTROL	Mud Daily Cost Mud Cum Cost	NTROL	
DRILLING RU / TO Drill w/ fluid Drill w/ air	0PERATION 1 1/2 1 1/2	IS TIME BR Survey Logging Run Casing	EAKDOWN	Move Rig Fishing M/U L/D BHA		Water added Losses WELL CON RSPP 1	0 0 NTROL 150	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	FSI
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming	0PERATION 1 1/2 1 1/2	IS TIME BR Survey Logging Run Casing Cementing	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellbead		Water added Losses WELL CON RSPP 1 ST/Min 1	0 0 NTROL 150 60	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL	FSI 180
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	1 1/2 1 1/2	Survey Logging Run Casing Cementing	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2	0 0 NTROL 150 60 125	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL	FSI 180
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	1 1/2 1 1/2 1 1/2	IS TIME BR Survey Logging Run Casing Cementing WOC	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2	0 0 NTROL 150 60 125 30	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	1 1/2 1 1/2	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2	0 0 NTROL 150 60 125 30	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min)	NTROL Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping	0PERATION 1 1/2 1 1/2 1 1/2	S TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa)	0 0 NTROL 150 60 125 30 1434	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	NTROL Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig	1 1/2 1 1/2 1 1/2	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill	0 0 NTROL 150 60 125 30 1434	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3)	NTROL Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig	1 1/2 1 1/2 1 1/2	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill	11	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill	0 0 VTROL 150 60 125 30 1434	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	NTROL Desilter	FSI 180 Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service	1 1/2 1 1/2 1 1/2	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs	11 24	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	0 0 NTROL 150 60 125 30 1434 02-Nov-06	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR \$	0PERATION 1 1/2 1 1/2 10 SUMMARY F	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs	11 24 er 7, 2006	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs)	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From	0PERATION 1 1/2 1 1/2 10 5000000000000000000000000000000000	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	11 24 er 7, 2006	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	0 0 NTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From	0PERATION 1 1/2 1 1/2 10 5000000000000000000000000000000000	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	11 24 er 7, 2006	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig 24 HOUR S From 0:00 4:20	0PERATION 1 1/2 1 1/2 10 5UMMARY F To 1:30 4:45	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50	TE : Drilled 156	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	11 24 er 7, 2006 377m to 377	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E7.5m.	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30	0PERATION 1 1/2 1 1/2 10 5UMMARY F To 1:30 4:15 7.02	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40	11 24 pr 7, 2006 377m to 377 Gal/min fluic	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(RPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E7.5m.	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15	0PERATION 1 1/2 1 1/2 10 5UMMARY F To 1:30 4:15 7:30	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25	TE : Drilled 156 Pulled out t Made up tr	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and t	11 24 er 7, 2006 377m to 37 Gal/min fluid ran in hole to	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E7.5m. 1 257m. Atter	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR \$ From 0:00 1:30 4:15 7:30	0PERATION 1 1/2 1 1/2 10 5000000000000000000000000000000000	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50	TE : Drilled 156 Pulled out Made up tr Mixed and	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p	11 24 er 7, 2006 377m to 37 Gal/min fluic ran in hole to iill and atem	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. d 257m. Atter pt to fill hole.	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost Soluto Solution Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Repair Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00	OPERATION 1 1/2 1 1/2 10 5UMMARY F To 1:30 4:15 7:30 10:00 10:30	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50	TTE : Drilled 156 Pulled out of Made up tr Mixed and Pulled out	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs November mm hole from of hole. 30-40 icone bit and r spoted LCM p	11 24 277m to 377 Gal/min fluic ran in hole to bill and atem	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 5 257m. Atter pt to fill hole.	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30	0PERATION 1 1/2 1 1/2 10 5000000 10:30 19:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50	TE : Drilled 156 Pulled out 1 Made up tr Mixed and Pulled out Mixed and	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC	11 24 er 7, 2006 377m to 37: Gal/min fluid ran in hole to bill and atem M pills. Top	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 5 2557m. Atter to fill hole.	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00) sees-@15 M3
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00	0PERATION 1 1/2 1 1/2 10 10 0 0 0 1:30 10:00 10:30 19:00 22:30	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50	TE : Drilled 156 Pulled out of Made up tr Mixed and Pulled out of Mixed and Ran in hole	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from pof hole. 30-40 icone bit and ri spoted LCM pi to 200m. pumped 5 LC	11 24 ar 7, 2006 377m to 377 Gal/min fluid ran in hole to iill and atem M pills. Top	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 2 257m. Atter pot to fill hole.	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ble. No returne S	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig 24 HOUR \$ From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	0PERATION 1 1/2 1 1/2 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from	11 24 ar 7, 2006 377m to 37 Gal/min fluid ran in hole to jill and atem M pills. Top 377.5m. To	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(RPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 5 257m. Atter to fill hole. filled annulas 379m.	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	OPERATION 1 1/2 1 1/2 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 ar 7, 2006 377m to 377 Gal/min fluic ran in hole to jill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(RPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. d 257m. Atter to fill hole. filled annulas 379m. preventor	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	OPERATION 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 27, 2006 377m to 37 Gal/min fluic ran in hole to sill and atem M pills. Top to 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 1 257m. Atter ot to fill hole. filled annulas 379m. preventor	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 19:00 22:30	OPERATION 1 1/2 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	TE : Drilled 156 Pulled out of Made up tr Mixed and Pulled out Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembee mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 277m to 377 Gal/min fluic ran in hole to bill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 257m. Atter ot to fill hole. filled annulas 379m. preventor	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs: ble. No returne s	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	OPERATION 1 1/2 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	TE : Drilled 156 Pulled out 1 Made up tr Mixed and Pulled out Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 er 7, 2006 377m to 37: Gal/min fluid ran in hole to bill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 2 2557m. Atter ot to fill hole. filled annulas 379m. preventor	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	OPERATION 1 1/2 1 1/2 10 500000 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	TTE : Drilled 156 Pulled out i Made up tr Mixed and Pulled out i Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and I spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 ar 7, 2006 377m to 377 Gal/min fluic Gal/min fluic ran in hole to ill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 5 257m. Atter pt to fill hole. filled annulas 379m. preventor	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	OPERATION 1 1/2 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	TE : Drilled 156 Pulled 156 Pulled out 1 Made up tr Mixed and Pulled out 1 Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from to 200m. pumped 5 LC pumped 5 LC	11 24 377m to 37 Gal/min fluid ran in hole to ill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(KPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 257m. Atter pot to fill hole. 379m. preventor	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	OPERATION 1 1/2 1 1/2 1 1/2 10 SUMMARY F 10 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	EAKDOWN TTE : Drilled 156 Pulled out of Made up tr Mixed and Pulled out of Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and I spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 ar 7, 2006 377m to 377 Gal/min fluid ran in hole to iill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. d 257m. Atter to fill hole. 379m. preventor	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: Die. No returne S d.100% return	NTROL Desilter	FSI 180 Centrifuge (to 24:00) sees-@15 M3
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	OPERATION 1 1/2 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	EAKDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 ar 7, 2006 377m to 377 Gal/min fluic ran in hole to jill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(RPa) Calc Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. d 257m. Atter to fill hole. filled annulas 379m. preventor	0 0 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: Dile. No returne s d.100% return	NTROL Desilter	FSI 180 Centrifuge (to 24:00) (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30	OPERATION 1 1/2 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	TE : Drilled 156 Pulled out Made up tr Mixed and Pulled out Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembee mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 277m to 377 Gal/min fluic ran in hole to bill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 257m. Atter to fill hole. filled annulas 379m. preventor	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs: Die. No returne s d.100% return	INTROL Desilter	FSI 180 Centrifuge (to 24:00) sees-@15 M3
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30 22:30 24 HOUR F	OPERATION 1 1/2 1 1/2 1 1/2 10 5UMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00 500 500 500 500 500 500 500 500 5	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	TE : Drilled 156 Pulled out 1 Made up tr Mixed and Pulled out Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 er 7, 2006 377m to 37 Gal/min fluic ran in hole to bill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs - E7.5m. 2557m. Atter to fill hole. filled annulas 379m. preventor	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ble. No returne S d.100% return	NTROL Desilter	FSI 180 Centrifuge (to 24:00) sees-@15 M3
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30 22:30 24 HOUR F Drill 156 m	OPERATION 1 1/2 1 1/2 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00 Forcast : m hole	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	TE : Drilled 156 Pulled out 1 Made up tr Mixed and Pulled out 1 Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 er 7, 2006 377m to 37. Gal/min fluid ran in hole to bill and atem M pills. Top 1 377.5m. To and annular p	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 7.5m. 2 257m. Atter ot to fill hole. 379m. preventor	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ble. No returners 1.100% returners	INTROL Desilter	FSI 180 Centrifuge (to 24:00) sees-@15 M3
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR S From 0:00 1:30 4:15 7:30 10:00 10:30 19:00 22:30 22:30 24 HOUR F Drill 156 m	OPERATION 1 1/2 1 1/2 1 1/2 10 SUMMARY F To 1:30 4:15 7:30 10:00 10:30 19:00 22:30 0:00	IS TIME BR Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 1.50 2.75 3.25 2.50 0.50 8.50 3.50 1.50	TTE : Drilled 156 Pulled out 1 Made up tr Mixed and Pulled out 1 Mixed and Ran in hole Drilled 156 Functioned	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe mm hole from of hole. 30-40 icone bit and r spoted LCM p to 200m. pumped 5 LC mm hole from tested HCR a	11 24 ar 7, 2006 377m to 377 Gal/min fluic an in hole to ill and atem M pills. Top 377.5m. To and annular	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E 257m. Atter pt to fill hole. filled annulas 379m. preventor	0 0 VTROL 150 60 125 30 1434 02-Nov-06 2400 hrs) Event mpt to fill ho No returne s. Circulated	Mud Daily Cost Mud Cum Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: Dile. No returne S 1.100% return	NTROL Desilter	FSI 180 Centrifuge (to 24:00) ses-@15 M3

Flat Bay #	5						15	DATE	Novor	mbor 9, 2006
	J 406	0		40.0	0 ~	REPORT #	10	00.75 hr		110er 9, 2000
DEPTH 24:00:	420.	U III	PROGRESS:	49.0	0 111	Last 24 Hr Ro		ZZ.75 III	AVE ROP:	2.2 11/11
OPER 06:00:	Drilling artea	u		<u></u>		FOREMAN:		Villianis	MOBILE NO.:	109-009-9013
DAILY COST:			HOLE CND.:	GC	000	WEATHER:	F	Kain	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll R	Rand RD10	TEMP.:		3°C	T.P. MOBILE:	
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	8 m	ROADS:	G	Good		
	BIT PERFO	RMANCE		SUR	/EYS	DRILLIN	IG FLUID		PUMPS	6
Bit No.	5RR			112 m	1.00 °	Time	20:00	Pump No.	1	
Size (mm)	156			132 m	3.00 °	Depth(m)	420	Make	Gardner D	enver
Mfg.	Smith			154 m	2.75 °	Density	1210	Model	PY-7	
Туре	SX30			175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #	PB2504			316 m	5.00 °	Vis	29	SPM	40	
Nozzles	open			341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	377.5					YP		Pump Rate	0.39	
To (mKB)	426					Gels		Pump Press.	350	kPa
Meterage [m]	49					рН	10	Drillpipe AV		m/min
Hrs on Bit	24.25					WL (cc's)		Drillcollar AV		m/min
ROP [m/hr]	2.0					Filter Cake		Nozzle Vel		m/sec
RPM	75					Sand (%)				
Condition						Solids (%)		м	UD & CHEN	IICALS
Pulled For?						Oil (%)		Mud Cycle	98	min
Cum Meters	58.0					Pf/Mf		Bottoms Up	21	min
Cum Hrs on Bit	58.75					MBT		Tanks	30	m3
Cum ROP [m/hr]	0.99					CI (ppm)		Hole Volume	8	m3
воттомно	LE ASSEMB	LY				Ca (ppm)		System Vol.	38	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)				
1	Bit	6.375-in				, , , , , , , , , , , , , , , , , , ,		Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	13.39	Hook Load:	•	DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Ite DB in hole:	/8	DB on Loo:	90	DB Copp:	2-7/8" IF		M ³			
				Di Conn.	2 1/0 11					
DRILLING U	PERATIONS		ANDOWN	Maura Dia	1	vvater added	0	Mud Cum Cost		
RU/10	00.044	Survey		Move Rig		Losses				
Drill w/ fluid	22 3/4	Logging		Fishing		WELL CO		SOLIDS CO	NIROL	501
Drill w/ air		Run Casing		M/U L/D BHA		RSPP 1	150	Shaker Make		100
Reaming		Cementing		Wellhead		ST/Min 1	60	Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		RSPP 2	125		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		ST/Min 2	30	Vol UF (I/min)		
Tripping		Test BOPs		W.O GEN		MACP(kPa)	1400	U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services		Calc Hole Fill		O.F. (kg/m3)		
Repair Rig		DST		Mix LCM Pill		Act Hole Fill		Hours/Days		
Rig Service	1 1/4	Hndle Tools		Total Hrs	24	Lst BOP Drill:	02-Nov-06	Boiler Hrs:		(to 24:00)
24 HOUR SU	MMARY FO	R THE DAT	E :	Novembe	er 8, 2006	(0000 hrs -	2400 hrs)			
From	То	Duration					Event			
0:00	4:15	4.25	Drilled 156	mm hole from	379m to 38	6m.				
4:15	4:30	0.25	Rig service	/Functioned H	ICR					
4:30	9:00	4.50	Drilled 156	mm hole from	386m to 394	4m.				
9:00	9:30	0.50	Service rig	pump						
9:30	10:00	0.50	Drilled from	n 394m to 395	m.					
10:00	10:30	0.50	Service rig	pump						
10:30	0:00	13.50	Drilled 156	mm hole from	395m to 42	6m				
24 HOUR Fo	rcast :									
D.: 1 450	hala									
Drill 156 mm	noie									

Flat Bay #	5						16	DATE	Nover	ber 10, 2006
	492	0 m	PROGRESS	66 () m	Last 24 Hr Ro	tating Time:	21 75 hr		3.0 m/hr
OPER 06:00:	Drilling ahea	d	TROOREOO.	00.		EOREMAN.	Bill V	Villiams		709-689-9673
DAILY COST	Drining arroa		HOLE CND ·	Go	od	WEATHER	,	Rain	TOOL PUSH	100 000 0010
CUM COST:					and PD10	TEMD		8°C		
FORMATION:	Anhy	drite	KB FLFV	3.3	m		(Good	T.F. WOBILE.	
TORMATION.	7 41119	unto	N.D. LLLV	0.0	,	NOADO.				1
		RMANCE		SUR	/EVS			1	PIIMPS	1
Bit No	5		1	112 m	1.00.°	Time	15:00	Rump No	1	,
Size (mm)	156			132 m	3.00 °	Denth(m)	420	Make	Gardner D	enver
Mfg.	Smith			154 m	2.75 °	Density	1223	Model	PY-7	
Type	SX30			175 m	3.50 °	Mud Grad	12	Liner X Stk	6"	
Serial #	PB2504			316 m	5.00 °	Vis	29	SPM	75	
Nozzles	open			341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	377.5			470 m	8.75 °	ΥP		Pump Rate	0.39	
To (mKB)	492					Gels		Pump Press.	3,500	kPa
Meterage [m]	115					рН	11	Drillpipe AV		m/min
Hrs on Bit	46.00					WL (cc's)		Drillcollar AV		m/min
ROP [m/hr]	2.5					Filter Cake		Nozzle Vel		m/sec
RPM	75					Sand (%)				
Condition						Solids (%)		М	UD & CHEN	IICALS
Pulled For?						Oil (%)		Mud Cycle	101	min
Cum Meters	123.5					Pf/Mf		Bottoms Up	24	min
Cum Hrs on Bit	56.25					MBT		Tanks	30	m3
Cum ROP [m/hr	2.20					CI (ppm)		Hole Volume	9	m3
BOTTOMHO	LE ASSEMB	LY				Ca (ppm)		System Vol.	39	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)				
1	Bit	6.375-in						Mud & Chemic	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	13.39	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole:	48	DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	S M°			
DRILLING O	PERATIONS	TIME BRE	AKDOWN			Water added	0	Mud Daily Cost	t	
RU / TO		Survey	1/2	Move Rig		Losses	0	Mud Cum Cost		
Drill w/ fluid	21 3/4	Logging		Fishing		WELL CO	NTROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		M/U L/D BHA		RSPP 1	150	Shaker Make		FSI
Reaming		Cementing		Wellhead		ST/Min 1	60	Shaker Mesh		180
Rm Rathole		woc		Safety Meeting		RSPP 2	125		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		ST/Min 2	30	Vol UF (l/min)		
Tripping		Test BOPs	1/4	W.O GEN		MACP(kPa)	1400	U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services		Calc Hole Fill		O.F. (kg/m3)		
Repair Rig	1 1/4	DST		Mix LCM Pill		Act Hole Fill		Hours/Days		
Rig Service	1/4	Hndle Tools		Total Hrs	24	Lst BOP Drill:	09-Nov-06	Boiler Hrs:		(to 24:00)
24 HOUR SU	MMARY FO	R THE DAT	E :	Novembe	er 9, 2006	(0000 hrs -	2400 hrs)			
From	То	Duration					Event			
0:00	11:45	11.75	Drilled 156	mm hole from	426m to 453	3m.				
11:45	12:00	0.25	Rig service	/Functioned a	nnular,close	d 8 secs				
12:00	16:15	4.25	Drilled 156	mm hole from	453m to 478	sm.				
16:15	16:45	0.50	Survey @ 4	470 m.						
16:45	17:00	0.25	Held BOP		-					
17:00	17:45	0.75	Drilled from	1 478m. 10 48	Um.					
17:45	19:00	1.25	Replaced r	iya. nose on to	op arive)				
19:00	0:00	5.00	Dunied 126	mm nole from	480m to 492	2m.				
			3							
24 HOUR Fo	rcast :									
24 HOUR Fo Drill 156 mm	rcast :									

Series asso 56.0 m Line 24 He Rearing Time 23.60 hr /s web 2.4 mm OPERE 000. Diffing Afreed roopenue. Rain 10020000000000000000000000000000000000	Flat Bav #5						REPORT #:	17	DATE:	Novem	ber 11. 2006
OPER 6K0 Drilling ahead HOLE NO. Good Water Bit Milling Monte to 709-889-9 CUM COST NO. MG.A Ingersol Rand RD10 Truer. B*C True costs. COST Anhydrifite Kall Elsov 3.3 m exclose Good PUMPS Stream Anhydrifite Kall Elsov 3.3 m exclose Good PUMPS Stream 5 Stream True 112 m 1.00+ True 112 m Log Stream Pump Stream And Arthone Good PUMPS Stream PSS Stream 12 m Stream Pump Stream Stream PV7 True Notes Notes Notes<	DEPTH 24:00:	548.	0 m	PROGRESS:	56.0) m	Last 24 Hr Ro	tating Time:	23.50 hr	Ave ROP:	2.4 m/hr
DALY COST HIGL ROD: Good Warnues. Rain 100/UBI- CIV COST Injersoft Rand ROD TERM. SC TE AUDIE COST TE AUDIE COST TE AUDIE SC TE AUDIE	OPER 06:00:	Drilling ahea	d				FOREMAN:	Bill V	/illiams	MOBILE NO .:	709-689-9673
DUM COST: PA 7016 /r Ingesol Rand RD/10 TEN: 8°C TP MODE: BY PERFORMANCE 3.0 m ROUTOW Good 90000 9000	DAILY COST:	~~~~~		HOLE CND.:	Go	od	WEATHER:	R	lain	TOOLPUSH:	
Production Anhydrife K.E. ELEV. 3.3 m PotAtte Good BIT PERFORMANCE SURVEYS DRLLING FUID PUMPS See (mm) 156 112 m 100 t Time 18.30 m Pump Inc. 1 See (mm) 156 12 m 100 t Time 18.30 m Pump Inc. 1 See (mm) 156 12 m 3.00 t Deptimin 13.4 tase Good PV/7 Tope SK30 316 m 5.00 t Rv 20 bersit Prover X8 6" Nocatios open 341 m 7.50 t Pv Pump Res 0.39 bersit Pump Res 0.39 bersit Pump Res 0.39 bersit Pump Res 0.30 bersit <	CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	8	3°C	T.P. MOBILE:	
BIT PERFORMANCE SURVEYS DRILLING FLUID PUMPS 58 No. 5 112 m 1.00 * Time 18.30 Nurve No. 1 98 No. 56 112 m 1.00 * Time 18.30 Nurve No. 1 98 No. 56 112 m 1.00 * Time 18.30 Nurve No. 1 98 No. 55 300 * Deprive 120 Nurve No. 1 98 No.2 Smith 156 m 300 * Deprive Nodified 1 Nocase open n 334 m 7.50 * YP Pum Res 0.39 Form (mRs) 377.5 470 m 8.75 * YP Pum Res 0.39 Condition Piter Case State (%) Nut Res (%) Nut Res (%) Nut Res (%) Nut Res (%) Condition 75 State (%) State (%) Nut Res (%) </td <td>FORMATION:</td> <td>Anhy</td> <td>/drite</td> <td>K.B. ELEV.:</td> <td>3.3</td> <td>m</td> <td>ROADS:</td> <td>G</td> <td>ood</td> <td></td> <td></td>	FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	m	ROADS:	G	ood		
BIT PERFORMANCE SURVEYS DRILLING FLUID PUMPS See (mm) 156 112 m 100 * 113 m 114											
Bit No. 5 112 m 1.00* Time 18.30 Marc No. 1 Mg. Smith 132 m 3.00* Deprint 134 m 2.75* Density 1250 Incat 0"7* Smith 175 m 3.00* Deprint 124 Incat 0"7* Smith 0"7* Smith 75 314 m 7.00* Via 29 PM 75 From (MB) 377.5 470 m 8.75* Via 29 PM mare Bith 0.30* From (MB) 377.5 470 m 8.75* Via 29 PM mare Bith 0.30* ROP (mM) 2.45 Smith No. Inter Bith No. No. <t< td=""><td></td><td>BIT PERFOR</td><td>RMANCE</td><td></td><td>SUR</td><td>/EYS</td><td>DRILLIN</td><td>IG FLUID</td><td></td><td>PUMPS</td><td>5</td></t<>		BIT PERFOR	RMANCE		SUR	/EYS	DRILLIN	IG FLUID		PUMPS	5
Size (mm) 156 132 m 3.00 * Deprim 134 m Maxe Cardiner Deriver Type SX30 175 m 3.50 * Mud Grad 12 Unit X and Mud Grad 13 Mud Grad 12 Unit X and Mud Grad 13 Mud Grad 13 Mud Grad 13 Mud Grad 13 Mud Grad 14 Mud Grad	Bit No.	5			112 m	1.00 °	Time	18:30	Pump No.	1	
Mg. Smith Institut Institut Institut P27-7 Social # PB2504 316 m 5.00 * Via 29 PM 75 Social # PB2504 316 m 5.00 * Via 29 PM 75 Flom (mR8) 377.5 470 m 8.75 ° Via PM 75 Mascrage (m1) 170.5 ° 470 m 8.75 ° Via PM 75 Condition PM 75 Gets PH 11 Pales Associal Associ	Size (mm)	156			132 m	3.00 °	Depth(m)	134	Make	Gardner De	enver
Type SX30 Image of the second	Mfg.	Smith			154 m	2.75 °	Density	1250	Model	PY-7	
Seriel a PB2504 PB2504 PB2504 PB2504 PB2504 PB2504 PP27 Eff. PB2504 PP27 Eff. PP37 Eff. PP27 Eff.	Туре	SX30			175 m	3.50 °	Mud Grad	12	Liner X Stk	6"	
Naczies open Statistics open Statistics PV Pump Rate Statistics Sta	Serial #	PB2504			316 m	5.00 °	Vis	29	SPM	75	
From (mR8) 5/1.3 1/2 4/0 m 8.75 1/2 Pump Press 0.39 Pam Meterage (m) 170.50 Hers on Bit 69.50 m/min m/min ROP (mrh1) 2.45 Sand (%) Sand (%) Sand (%) Mutcage (%)	Nozzles	open			341 m	7.50 °	PV		Pump Eff.	95%	
(10 (mks) 0=40 0 0=10 0 0=10	From (mKB)	3/1.5			470 m	8.75 °	YP Oolo		Pump Rate	0.39	1.0-
Marent age (m) ROP (m/n) ROP (m/n) ROP (m/n) ROP (m/n) 2.45 Marent ROP (m) 75 Marent ROP (m) Statistical AV (m) Statistical AV	TO (MKB)	040 170 50					Geis	11	Pump Press.	3,500	KPa
Mile Do Dock Mile Cake Mile Cake RPM 75 Stand (%) Nozzi Vid Mile Cake Stand (%) Stand (%) Stand (%) Nozzi Vid Mile Cake Pulket Por? Com Meres 191.0 Stand (%) Nozzi Vid Mile Cake Com Meres 191.0 Com Meres 104 mile Cake Stand (%) Nozzi Vid Mile Cake 200 mR OPE (mM) Com Meres 104 Stand (%) Noz Mile Cake Nozzi Vid Mile Cake 2 Stab B-in 2-778' IF Nout On Mod Vid Mile Cake Mile Cake <t< td=""><td>Hrs on Bit</td><td>69.50</td><td></td><td></td><td></td><td></td><td>рп MIL (cc's)</td><td>11</td><td>Drillpipe AV</td><td></td><td>m/min</td></t<>	Hrs on Bit	69.50					рп MIL (cc's)	11	Drillpipe AV		m/min
No. Total Total Marco Marco Condition Plands Solids (%) Muld Delay	ROP [m/br]	2 45					Filter Cake				m/sec
Condition Pulled For? MUD & CHEMICALS Pulled For? MUD & CHEMICALS Cum Meters 191.0 Cum Rob [m/M] Pi/M BOTTOMHOLE ASSEMBLY No. No. Item 1 Bit 2 Stable 3 DTII Collar 4 Ar7s-in 3 Prevalue 40 De rate 40 Conversion 3 DTII Collar 4 De rate 4 De rate 5 De Packs 6 Ord Corx 70 De rate	RPM	75					Sand (%)				11/360
Pulled For? Dif (%) Mud Cycle 104 min Cum Heards 191.0 Dif (%) PAM PAM <td< td=""><td>Condition</td><td>10</td><td></td><td></td><td></td><td></td><td>Solids (%)</td><td></td><td>м</td><td>JD & CHEM</td><td></td></td<>	Condition	10					Solids (%)		м	JD & CHEM	
Cum Meters Cum RoP [m/h] 191.0 (2um RoP [m/h] Diff of mark 27 min BOTTOMHOLE ASSEMBLY Excepted for an and the state of the st	Pulled For?						Oil (%)		Mud Cvcle	104	min
Cum His on Bit Cum Rol [m/m] Tanka 30 m3 No. Item Max OD Min ID Connection Size & Type Sainity (mS) Mud Co. No. Item Max OD Min ID Connection Size & Type Sainity (mS) Mud Co. 1 Bit 6.375-in 2.778' IF Mud Co. Mud D g@ Mud Ac 3 Drill Collar 4.75-in 3-1/2' IF Mud U g@ Mud D g@ Mud D g@ Auall WOB: 3 as DP Paaka DC Conne 2-7/8' IF VOLUMES M3 But Protectart 70 DP on Locs 99 DC Conne 2-7/8' IF VOLUMES Mud Daily Cost BU/ TO 23 1/2' Logang Febring Muve Rg Solub S Cost ROL Solub S Cost ROL Bulk in fulai 23 1/2' Logang Febring MU LD BHA Strike 1 800 Rearring Cememing Wellewaid Strike 1 800 Solub S Cost ROL Rearring Cememing Wellewaid Strike 1 800	Cum Meters	191.0					Pf/Mf		Bottoms Up	27	min
Com ROP (mMn) O Max Max <th< td=""><td>Cum Hrs on Bit</td><td>79.75</td><td></td><td></td><td></td><td></td><td>MBT</td><td></td><td>Tanks</td><td>30</td><td>m3</td></th<>	Cum Hrs on Bit	79.75					MBT		Tanks	30	m3
BOTTOMHOLE ASSEMBLY No. Item Max OD Min ID Connection Size & Type Sainity (ms) 1 Bit 6.375-in 2-7/8" IF Mud Co. 3 Drill Collar 4, 475-in 3-1/2" IF Mud Man Mud Dill Collar 4, 475-in 3-1/2" IF Mud Man Mud Dill Collar 4, 475-in 3-1/2" IF Mud Man DRILLLING OPERATIONS TIME BREAKDOWN Water added 0 Mud Daily Cost RU/ TO Survey Move Rig Losses 0 Baker Make FSI Prill w fuid 23 1/2 Logging Fibring Water added 0 Mud Daily Cost Mud Com Nor W fluid 23 1/2 Logging Fibring Water added 0 Mud Com Cost Mud Com Cost Pril W fluid 23 1/2 Logging Welthead STMin 1 60 Staker Make FSI Rearing Connecting Welthead STMin 1 60 Staker Make Staker Make Staker Make Staker Make Staker Make <	Cum ROP [m/hr]						CI (ppm)		Hole Volume	10	m3
No. Item Max OD Min ID Connection Size & Type Salaniny (mS) 1 Bit 6:375-in	BOTTOMHOL	E ASSEMBL	Y				Ca (ppm)		System Vol.	40	m3
1 Bit 6.375-in	No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)				
2 Stab 6-in 2-7/8" IF Mud Co. 3 Drill Collar 4.75-in 3-1/2" IF Mud Vp @ Avail WOB: Jts DP Racks DC Com: 3-1/2" IF Mud Vp @ Aual WOB: Jts DP Racks DC Com: 3-1/2" IF VOLUMES Ma Aual WOB: Jts DP Racks DC Com: 3-1/2" IF VolUMES M Aual WOB: Jts DP Racks DC Com: 3-1/2" IF VolUMES M Aual WOB: Jts DP Racks DC Com: 3-1/2" IF VolUMES M Aual WOB: Jts DP Racks DC Com: 3-1/2" IF VolUMES M Mud Daily Cost State Machine State Machine State Machine Mud Daily Cost Mud Vair 23 1/2 Logaing Felning State Machine FSI Rearing Cenerening Wuithed State Machine FSI Shaker Machine FSI Rearing Drill Ou Crit Wat may theeting RSP1 150 Shaker Machine FSI	1	Bit	6.375-in						Mud & Chemica	als Added:	
3 Drill Collar 4.75 in list DP landat: DP size 4.5' d.12" IF Muld Dell BHA Langh: 13.39 Hook Load: DP size 3-1/2" IF Muld Dell DP landat: Muld Up @ Jis DP In hole: 70 DP on Loc: 99 DP Conn: 2-7/8" IF VOLUMES Muld Delly Cost DRILLING OPERATIONS TIME BREAKDOWN Survey Move Rig Water added 0 Muld Delly Cost DII W fluid 23 1/2 Logging Fishing Water added 0 Muld Delly Cost Branning Cemeeting Well Move Rig Social Socia	2	Stab	6-in		2-7/8" IF		Mud Co.				
BHA Length: 13.39 Hook Load: DP size 4.5" Mud Up @ Arail WOB: Jis DP Backs DC Conn: 3-1/2" IF VOLUMES M ³ Jus DP In Ioe: 70 DP conc: 99 PC Conn: 2-7/8" IF VOLUMES M ³ DRILLING OPERATIONS TIME BREAKDOWN Survey Move Rig Userse 0 Mud Up @ Mud Up @ RU/TO Survey Move Rig Losses 0 Mud Cum Cost SOLIDS CONTROL Reaming Cementing Wellhead ST/Min 1 60 Shaker Mesh 180 Reaming Cementing Wellhead ST/Min 2 30 Vol UF (//min) UF: (kg/m3) Cond / Circ NU BOP's Mic mud ST/Min 2 30 Vol UF (//min) UF: (kg/m3) Diff U of UCirc NU BOP's Mic mud ST/Min 2 30 Vol UF (//min) UF: (kg/m3) Cond / Circ NU BOP's Mic uch Pill 24 Hour St/Marce Pill 09-Nov-06 Boiler H'rs: (to 24.0 24 HO	3	Drill Collar	4.75-in		3-1/2" IF		Mud Man				
Avail WOB: dts DP mades DC Conn: 3-1/2" IF VolLUMES M³ dts DP in hole: 70 DP on Loc: 99 DP Conn: 2-7/8" IF VolLUMES M³ DRILLING OPERATIONS TIME BREAKDOWN Move Rig Mater added 0 Mud Cam Cost Mud Cam Cost DIII w/ kir 23 1/2 Logging Flahing Mud Daily Cost Mud Cam Cost Reming Cenenting Wellhead STMin 1 60 Shaker Make FSI Rearing Corr NU BOPs Mix mud STMin 1 60 Shaker Mesh 180 Rin Rathole WOC Safety Meeting RSPP 2 125 Shaker Mesh 180 Cond / Circ NU BOPs Mix mod StMin 2 1400 Vir UF (Invin) Eerthflue Lubricate Rig Diff UoI Cmt Wait on services Mix LOB Pill Act Hole Fill Act Hole Fill No.P. (kg/m3) U.F. (kg/m3)	BHA Length:	13.39	Hook Load:		DP size	4.5"	Mud Up @				
Je D P In hole: 70 DP on Loc: 99 DP Com: 2-7/8" IF VOLUMES M° DRILLING OPERATIONS TIME BREAKDOWN Survey Move Rig Valet added 0 Mud Daily Cost D/I U/ T00 Survey Move Rig Losses 0 Mud Cum Cost D/II W // Mid 23 1/2 Logging Fishing Binhing SolLiDS CONTROL Rearning Cemering Wellbead ST/Min 1 60 Shaker Make FS1 Rearning Cemering Wellbead ST/Min 1 60 Shaker Make FS1 Rearning Cemering Waton services Cale Hole Fill St/Min 2 30 Vol UF (//min) Desilter Centrifu Cond / Circ NU BOP's Mix mud St/Min 2 30 Vol UF (//min) Desilter Centrifu Repart Rig DST Mix LCM Pill Act Hole Fill O.F. (kg/m3) U.F. (kg/m3)	Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF		2			
DRILLING OPERATIONS TIME BREAKDOWN Water added 0 Mud Daily Cost RU/TO Survey Move Rig Losses 0 Mud Daily Cost Drill wfuid 23 1/2 Logging Fishing Weller added 0 Mud Daily Cost Drill wfuid 23 1/2 Logging Fishing Wellhead STMin 1 60 Shaker Make FSI Rearing Cementing Wellhead STMin 1 60 Shaker Make FSI Rearing Cementing Will DB BA STMin 1 60 Shaker Make FSI Cond / Circ NU BOP's Mix mud STMin 2 30 Vol UF (//min) Desilter Centrifu Lubricate Rig Drill Our Cmt Wate nearcices Cale Hole Fill Act Hole Fill OF, (kg/m3) Hold Erill King 3 OF, (kg/m3) Hold Erill King 3 Desilter Cost 240 24 HOUR SUMMARY FOR THE DATE : November 10, 2006 (0000 hrs. 2400 hrs) Event Dirill 75 mm hole from 521m Dirill 156mm hole from 521m Dirill 156mm hole from 531m Fill King	Jts DP in hole:	70	DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	M°			
RU / TO Survey Move Rig Losses 0 Mud Cum Cost Drill w/ in Run Casing Run Casing WU LD BHA RSP 1 150 Solub S CONTROL Solub S CONTROL Rearning Cementing Wellhead ST/Min 1 60 Shaker Make FS1 Rearning Cementing Wellhead ST/Min 1 60 Shaker Make M FS1 Rearning WC C Safety Meeting RSP 2 125 Vol UF (/min) Desilter Centrifu Cond / Circ NU BOPs Mix mud ST/Min 2 30 Vol UF (/min) Desilter Centrifu Lubricate Rig Diff Out Cmt Wait on services Cale Hole Fill Hours/Days Hours/Days Idours/Days Idours	DRILLING OP	ERATIONS 1	IME BREA	KDOWN			Water added	0	Mud Daily Cost		
Drill w/ uir 23 1/2 Logging Fishing WELL CONTROL SOLIDS CONTROL Braining Run Casing MU LD BHA RSPP 1 150 Shaker Make FSI Rearning WOC Safety Meeting STMin 1 60 RsPP 2 125 Shaker Make FSI Cornd / Circ NU BOP's Mix mud STMin 2 30 Vol UF (//min) U.F. (kg/m3) U.F. (kg/m3) Tripping Test BOPs W/O GEN Mix LCM Pill At Hole Fill O.F. (kg/m3) U.F. (kg/m3) U.F. (kg/m3) Repair Rig DST Mix LCM Pill At Hole Fill U.F. (kg/m3) U.F. (kg/m3) U.F. (kg/m3) Rig Service 1/2 Hnde Tools Total Hrs 24 Et BOP Drill: 09-Nov-06 Boiler Hrs: (to 24:0 24 HOUR SUMMARY FOR THE DATE: November 10, 2006 0000 hrs - 2400 hrs) Event 09-Nov-06 Boiler Hrs: (to 24:0 11:45 12:00 0.25 Rig Service - Function test HCR valve DIII 156mm hole from 521m to 531m 011 16:30 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m 0 0 0 24 HOUR Forcast : DE DE DE DE DE	RU / TO		Survey		Move Rig		Losses	0	Mud Cum Cost		
Drill w/air Run Casing Camenting MU UD BHA Wellhead RSP 1 STMin 1 150 60 Shaker Make Shaker Make FS1 180 Rm Rathole WOC Sately Meeting RSP 2 125 Shaker Make FS1 Rm Rathole WOC Sately Meeting RSP 2 125 Desiter Centrifu Cond / Circ NU BOP's Mix mud STMin 2 30 Vol UF (l/min) Let (kg/m3) Tripping Test BOPs W/J O GEN MACP(k(Pa) 1400 U.F. (kg/m3) O.F. (kg/m3) Let (kg/m3) Hours/Days Let (kg/m3) <t< td=""><td>Drill w/ fluid</td><td>23 1/2</td><td>Logging</td><td></td><td>Fishing</td><td></td><td>WELL CON</td><td>NTROL</td><td>SOLIDS CO</td><td>NTROL</td><td></td></t<>	Drill w/ fluid	23 1/2	Logging		Fishing		WELL CON	NTROL	SOLIDS CO	NTROL	
Reaming Rm Rahole Commenting WOC Weilhead Safety Meeting STMIn 1 60 STMIn 1 Shaker Mesh 180 Rm Rahole NUB OPs Mik mud STMIn 1 60 Shaker Mesh 125 Cond / Circ NUB OPs Mik mud STMIn 2 30 Vol UF (/min) Desilter Centrifu Lubricate Rig Repair Rig Drill Out Cmt Wait on services Calc Hole Fill 0.F. (kg/m3) 0.F. (kg/m3) Hours/Days	Drill w/ air		Run Casing		M/U L/D BHA		RSPP 1	150	Shaker Make		FSI
Rm Rahole WOC Safety Meeting RSPP 2 125 Desilter Centrifu Cond / Circ NU BOP's Mix mud ST/Min 2 30 Vol UF (//min) Lubricate Rig Drill Out Cmt Wo OC Safety Meeting RSPP 2 125 Desilter Centrifu Repair Rig DST Mix LCM Pili Mac CM Pili Act Hole Fill O.F. (kg/m3) D.F. (k	Reaming		Cementing		Wellhead		ST/Min 1	60	Shaker Mesh		180
Cond / Circ NU BOP's Mix mud STMin 2 30 Vol UP (//min) Tripping Test BOPs W.O GEN MACP(k-a) 1400 U.F. (kg/m3) U.F. (kg/m3) Repair Rig DST Mix LCM Pill Z4 Et BOP Drill 09-Nov-O6 Boiler Hrs: (to 24:0 24 HOUR SUMMARY FOR THE DATE : November 10, 2006 (0000 hrs - 2400 hrs) Event 1400 U.F. (kg/m3) Hours/Days (to 24:0 11:45 12:00 0.25 Rig Service - Function test HCR valve Event 11:45 12:00 0.25 Rig Service - Function test HCR valve 12:00 16:30 4.50 Drill 156mm hole from 521m to 531m 531m 16:30 16:45 0.25 Rig Service 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m Image: Service -	Rm Rathole		WOC		Safety Meeting		RSPP 2	125		Desilter	Centrifuge
Inpping Ifest BOPs W.O GEN MACP(RPa) 1400 0.F. (kg/m3) Lubricate Rig DST Wait on services Calc Hole Fill O.F. (kg/m3) 0.F. (kg/m3) Rig Service 1/2 Hndle Tools Total Hrs 24 Lat BOP Drill: 0.9-Nov-06 Boiler Hrs: (to 24:0 24 HOUR SUMMARY FOR THE DATE : November 10, 2006 (0000 hrs - 2400 hrs) Event 0.7. (kg/m3) 0.7. (kg/m3) <td>Cond / Circ</td> <td></td> <td>NU BOP's</td> <td></td> <td>Mix mud</td> <td></td> <td>ST/Min 2</td> <td>30</td> <td>Vol UF (l/min)</td> <td></td> <td></td>	Cond / Circ		NU BOP's		Mix mud		ST/Min 2	30	Vol UF (l/min)		
Lubricate Rig Repair Rig Drill Out Cmt DST Wat on services Mix LCM Pill Cale Hole Fill Act Hole Fill O9-Nov-O6 D.F. (Kg/m3) Boiler Hrs: Mix LCM Pill Hours/Days 24 HOUR SUMMARY FOR THE DATE : November 10, 2006 November 10, 2006 (0000 hrs) Boiler Hrs: (to 24:0 60:00 11:45 11.75 Drill 156mm hole from 492m to 521m Event (to 24:0 11:45 12:00 0.25 Rig Service - Function test HCR valve 531m 16:45 0.25 Rig Service 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m 548m 548m 548m 548m 24 HOUR Forcast : Drill 56 mm hole from 531m to 548m 548m<	Tripping		Test BOPs		W.O GEN		MACP(kPa)	1400	U.F. (kg/m3)		
Repair Ng Instruction Fill	Lubricate Rig		Drill Out Cmt		Wait on services		Calc Hole Fill		O.F. (kg/m3)		
Rig Service If 2 India Foils If otal Firs 24 Ites BOP Drift Ose-Nov-Objective Firs (to 24:0) 24 HOUR SUMMARY FOR THE DATE : November 10, 2006 (0000 hrs - 2400 hrs) Event 0:00 11:45 11.75 Drill 156mm hole from 492m to 521m 0:00 11:45 11.75 Drill 156mm hole from 492m to 521m Event 0:00 16:30 4.50 Drill 156mm hole from 521m to 531m 16:30 16:45 0.25 Rig Service Rig Service 11:45 11:45 0:00 7.25 Drill 156mm hole from 531m to 548m 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00 1:45 0:00	Repair Rig	1/0				24	Act Hole Fill	00 Nov 06	Hours/Days		(1-04-00)
24 HOUR SUMMARY FOR THE DATE: November 10, 2006 (0000 hrs - 2400 hrs) From To Duration Event 0:00 11:45 11.75 Drill 156mm hole from 492m to 521m 11:45 12:00 0.25 Rig Service - Function test HCR valve 12:00 16:30 4.50 Drill 156mm hole from 521m to 531m 16:30 16:45 0.25 Rig Service 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m	Rig Service	1/2	Hndle I ools		Total Hrs	24	Lst BOP Drill:	09-1100-06	DOILET LIS.		(to 24:00)
Itom Ito Duriation Event 0:00 11:45 11.75 Drill 156mm hole from 492m to 521m 11:45 12:00 0.25 Rig Service - Function test HCR valve 12:00 16:30 4.50 Drill 156mm hole from 521m to 531m 16:30 16:45 0.25 Rig Service 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m	24 HOUR SUN		THE DATE	:	Novembe	r 10, 2006	(0000 hrs -	2400 hrs)			
11:45 11:75 Drift Tool from tool 452111 0521111 11:45 12:00 0.25 Rig Service - Function test HCR valve 12:00 16:30 4.50 Drift 156mm hole from 521m to 531m 16:30 16:45 0.25 Rig Service 16:45 0:00 7.25 Drift 156mm hole from 531m to 548m		11.45	11.75	Drill 156~-	hole from AC)2m to 501	E	ent			
12:00 16:30 4.50 Drill 156mm hole from 521m to 531m 16:30 16:45 0.25 Rig Service 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m	11:45	12.40	0.25	Rig Sonvice	- Function to	et HCP value	<u>د</u>				
16:30 16:45 0.25 Rig Service 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m	12:00	16:30	4.50	Drill 156mn	hole from 50	21m to 531m	•				
16:45 0:00 7.25 Drill 156mm hole from 531m to 548m 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m 16:45 0:00 7.25 Drill 156mm hole from 531m to 548m 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 17:45 0:00 0:00 0:00 16:45 0:00 0:00 0:00 17:45 0:00 0:00 0:00	16:30	16:45	0.25	Rig Service							
24 HOUR Forcast : Drill 156 mm holo	16:45	0:00	7.25	Drill 156mn	n hole from 53	31m to 548m					
24 HOUR Forcast :			-								
24 HOUR Forcast : Drill 156 mm holo											
24 HOUR Forcast :											
24 HOUR Forcast :											
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24 HOUR Forcast :											
24 HOUR Forcast :											
Drill 156 mm holo		act :									
	Drill 156 mm b										

Flat Bay #5						REPORT #:	18	DATE:	Noverr	ber 12, 2006
DEPTH 24:00:	581.	.0 m	PROGRESS:	33.0) m	Last 24 Hr Ro	tating Time:	16.00 hr	Ave ROP:	2.1 m/hr
OPER 06:00:	Drilling ahea	ad				FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	F	Rain	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	1	0°C	T.P. MOBILE:	
FORMATION:	Anhy	/drite	K.B. ELEV.:	3.3	m	ROADS:	G	lood		
	BIT PERFOR	RMANCE		SUR	/EYS	DRILLIN	IG FLUID		PUMPS	5
Bit No.	5			112 m	1.00 °	Time	18:30	Pump No.	1	
Size (mm)	156			132 m	3.00 °	Depth(m)	134	Make	Gardner D	enver
Mfg.	Smith			154 m	2.75 °	Density	1130	Model	PY-7	
Туре	SX30			1/5 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #	PB2404			316 m	5.00 °	Vis	29	SPM	/5 05%	
Nozzles	open			341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	581			470 m	0.75	YP Colo		Pump Rate	0.39	kDo
Motorago [m]	203 50					Geis	11	Pump Press.	3,500	KFa
Hrs on Bit	85 50					WL (cc's)		Drillcollar AV		m/min
ROP [m/hr]	2.38					Filter Cake		Nozzle Vel		m/sec
RPM	75					Sand (%)				
Condition	_					Solids (%)		м	UD & CHEN	IICALS
Pulled For?						Oil (%)		Mud Cycle	106	min
Cum Meters	168.0					Pf/Mf		Bottoms Up	29	min
Cum Hrs on Bit	90.00					МВТ		Tanks	30	m3
Cum ROP [m/hr]						CI (ppm)		Hole Volume	11	m3
BOTTOMHOL	E ASSEMBL	Y				Ca (ppm)		System Vol.	41	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)				
1	Bit	6.375-in		/				Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" I⊦	4.5"	Mud Man				
BHA Length:	13.39	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2 IF		3			
Jts DP in hole:	75	DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	IVI			
DRILLING OP	ERATIONS 1		KDOWN		1	Water added	0	Mud Daily Cost	t	
RU / TO	10	Survey		Move Rig		Losses		Mud Cum Cost	NTDO	
Drill w/ fluid	16	Logging		Fishing			150	SOLIDS CO	NIROL	
Drill W/ air		Run Casing		M/U L/D BHA		RSPP 1	60	Shaker Mash		180
Reaming Rm Rathole		woc		Safety Meeting			125	Shaker Wesh	Desilter	Centrifuge
Cond / Circ				Mix mud		ST/Min 2	30	Vol LIE (I/min)	Desilier	Gentinuge
Tripping	4 1/4	Flow check	1/2	W.O GEN		MACP(kPa)	1400	U.F. (kg/m3)		
Lubricate Rig	-	Drill Out Cmt		Wait on services		Calc Hole Fill		O.F. (kg/m3)		
Repair Rig	2 1/2	DST		Mix LCM Pill		Act Hole Fill		Hours/Days		
Rig Service	3/4	Hndle Tools		Total Hrs	24	Lst BOP Drill:	11-Nov-06	Boiler Hrs:	•	(to 24:00)
24 HOUR SUM		THE DATE	:	November	r 11, 2006	(0000 hrs -	2400 hrs)			
From	То	Duration			, 2000	E	Event			
0:00	0:30	0.50	Rig service							
0:30	0:45	0.25	Flow check	-BOP drill						
0:45	14:00	13.25	Drilled 156	mm hole from	548m to 57	7m				
14:00	14:15	0.25	Rig service							
14:15	17:00	2.75	Drilled 156	mm hole from	577m to 58	lm				
17:00	17:15	0.25	Flow check							
17:15	21:30	4.25	Pulled out o	of hole to 85m	າ.					
21:30	0:00	2.50	Worked on	top drive						
			Eurotionod	tostad pipa r	me					
				rested hihe la	31115					
24 HOUR Ford	ast :									
Work on ton dr	ive									
work on top u										

Flat Bav #5						REPORT #	19	DATE	Novem	ber 13, 2006
DEPTH 24:00:	581.	0 m	PROGRESS			Last 24 Hr Ro	tating Time:		Ave ROP:	#DIV/0!
OPER 06:00:	Work on top	drive	1			FOREMAN:	Bill V	Villiams	MOBILE NO.:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	F	Rain	TOOLPUSH:	
				Indersoll R	and RD10		1	0°C		
FORMATION:	Anhy	drite	K.B. ELEV.:	3.3	m	ROADS:	G	iood	T.I. MODILL.	
							-	1		
	BIT PERFOR	RMANCE		SUR	/FYS	DRILLIN	IG FLUID		PUMPS	
Bit No	5			112 m	1.00 °	Time	18:30	Pump No	1	·
Size (mm)	156			132 m	3.00 °	Depth(m)	134	Make	Gardner De	enver
Mfa.	Smith			154 m	2.75 °	Density	1130	Model	PY-7	
Туре	SX30			175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #	PB2504			316 m	5.00 °	Vis	29	SPM	75	
Nozzles	open			341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	366			470 m	8.75 °	YP		Pump Rate	0.39	
To (mKB)	581					Gels		Pump Press.	3,500	kPa
Meterage [m]	215.00					рН	11	Drillpipe AV		m/min
Hrs on Bit	46.00					WL (cc's)		Drillcollar AV		m/min
ROP [m/hr]	4.67					Filter Cake		Nozzle Vel		m/sec
RPM	75					Sand (%)				
Condition						Solids (%)		M	UD & CHEM	IICALS
Pulled For?						Oil (%)		Mud Cycle	106	min
Cum Meters	135.0					Pf/Mf		Bottoms Up	29	min
Cum Hrs on Bit	90.00					MBT		Tanks	30	m3
Cum ROP [m/hr]						CI (ppm)		Hole Volume	11	m3
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No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)				
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BHA Length:	13.39	HOOK LOAD:		DP size	4.5 3-1/2" IE	widd Op @				
Avail WOD.				De conn.	0 1/2 11		M ³			
Jts DP in hole:	75	DP on Loc:	99	DP Conn:	2-7/8° IF	VOLUMES	IVI			
						î				
DRILLING OP	ERATIONS T	IME BREA	KDOWN		1	Water added	0	Mud Daily Cost		
DRILLING OP	ERATIONS T	IME BREA	KDOWN	Move Rig		Water added Losses	0	Mud Daily Cost Mud Cum Cost		
DRILLING OP RU / TO Drill w/ fluid	ERATIONS T	IME BREA	KDOWN	Move Rig Fishing		Water added Losses WELL CON	0 0 NTROL	Mud Daily Cost Mud Cum Cost SOLIDS CO	NTROL	
DRILLING OP RU / TO Drill w/ fluid Drill w/ air	ERATIONS T	IME BREAN Survey Logging Run Casing	KDOWN	Move Rig Fishing M/U L/D BHA		Water added Losses WELL CON RSPP 1	0 0 NTROL 150	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	FSI
DRILLING OP RU / TO Drill w/ fluid Drill w/ air Reaming	ERATIONS T	IME BREAN Survey Logging Run Casing Cementing	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead		Water added Losses WELL CON RSPP 1 ST/Min 1	0 0 NTROL 150 60	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL	FSI 180
DRILLING OP RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	ERATIONS T	IME BREAI Survey Logging Run Casing Cementing WOC	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2	0 0 NTROL 150 60 125 20	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL Desilter	FSI 180 Centrifuge
DRILLING OP RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	ERATIONS T	IME BREAN Survey Logging Run Casing Cementing WOC NU BOP's Toot POPo	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACE/(#PP)	0 0 150 60 125 30 1400	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	NTROL Desilter	FSI 180 Centrifuge
DRILLING OPI RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Pin	ERATIONS T	IME BREAI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Test BOP's	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hola Eill	0 0 NTROL 150 60 125 30 1400	Mud Daily Cost Mud Cum Cost Soluto Cost Shaker Make Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3)	NTROL Desilter	FSI 180 Centrifuge
DRILLING OPI RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Benair Pin	24	IME BREAN Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix L CM Pill		Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill	0 0 NTROL 150 60 125 30 1400	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days	NTROL Desilter	FSI 180 Centrifuge
DRILLING OPI RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Bio Senúree	24	IME BREAI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Horle Tools	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs	24	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Let BOP Doil!	0 0 NTROL 150 60 125 30 1400	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge
DRILLING OPI RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service	24	IME BREAI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs	24	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill:	0 0 NTROL 150 60 125 30 1400 <u>11-Nov-06</u>	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING OP RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR SUN From	24 IMARY FOR	IME BREAN Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools THE DATE Duration	KDOWN :	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	24 r 12, 2006	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(RPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 150 60 125 30 1400 11-Nov-06 2400 hrs)	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter	FSI 180 Centrifuge (to 24:00)
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DRILLING OPI RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR SUIV From 0:00	24 IMARY FOR 0:00	IME BREAI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE Duration 24.00	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembel top drive	24 r 12, 2006	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(RPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 17ROL 150 60 125 30 1400 11-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING OPI RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR SUN From 0:00	24 IMARY FOR 0:00	IME BREAI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE Duration 24.00	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembel top drive	24 r 12, 2006	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(KPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 17ROL 150 60 125 30 1400 11-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING OPI RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR SUN From 0:00 24 HOUR SUN	24 IMARY FOR To 0:00 	IME BREAI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE Duration 24.00	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembel top drive	24 r 12, 2006	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(KPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs -	0 0 17ROL 150 60 125 30 1400 11-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
DRILLING OPI RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR SUN From 0:00 0:00 24 HOUR Forc Repair ton drive	24 IMARY FOR 0:00	IME BREAI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE Duration 24.00	KDOWN	Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembel top drive	24 r 12, 2006	Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(KPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: (0000 hrs - E	0 0 17ROL 150 60 125 30 1400 11-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)

Flat Bay #5						REPORT #:	20	DATE:	Novem	ber 14, 2006
DEPTH 24:00:	607	.0 m	PROGRESS	26.	0 m	Last 24 Hr Ro	tating Time:	9.50 hr	Ave ROP:	2.7 m/hr
OPER 06:00:	Drill Ahead					FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	bod	WEATHER:	C	lear	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	6	5°C	T.P. MOBILE:	
FORMATION:	Anhydrite/	Limestone	K.B. ELEV.:	3.3	3 m	ROADS:	G	iood		
						1		1		
		RMANCE	1	SUR	VEYS	DRILLIN			PUMPS	
Bit No.	156			112 m	1.00 °	Lime	20:00	Pump No.	1 Cordnor Dr	nvor
Size (mm)	Reed			152 m	3.00 2.75 °	Deptri(m)	1130	Madel	PY-7	enver
Type	SI 43H			175 m	3.50 °	Mud Grad	1100	Liner X Stk	6"	
Serial #	NM3942			316 m	5.00 °	Vis	29	SPM	75	
Nozzles	20/20/20			341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	581			470 m	8.75 °	YP		Pump Rate	0.39	
To (mKB)	607					Gels		Pump Press.	3,500	kPa
Meterage [m]	26.00					pН	10	Drillpipe AV		m/min
Hrs on Bit	9.50					WL (cc's)		Drillcollar AV		m/min
ROP [m/hr]	2.74					Filter Cake		Nozzle Vel		m/sec
RPM Condition	15					Sand (%)		R A I		
Condition						Solids (%)		Mud Custa		min
Cum Meters	26.0					Oli (%) Pf/Mf		Iviua Cycle Bottoms Lin	30	min
Cum Hrs on Bit	9.50					MBT		Tanks	30	m3
Cum ROP [m/hr]	2.74					CI (ppm)		Hole Volume	12	m3
BOTTOMHOLE		(1	11		Ca (ppm)		System Vol.	42	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)	168			
1	Bit	6.375-in						Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" IF	4.5%	Mud Man				
BHA Length:	13.39	Hook Load:		DP size	4.5" 2 1/2" IE	Mud Up @				
Avaii WOB.	75	JIS DP Racks		DC Conn.	0.7/0" IF		м ³			
Jts DP in hole:		DP on Loc:	99	DP Conn:	2-7/8 IF	VOLUNIES	NN O			
	RATIONS		DOWN	Move Pig	1	Water added	0	Mud Daily Cost		
Drill w/ fluid	9 1/2			Fishing		WELL CON		SOLIDS CO	NTROL	
Drill w/ air	0 1/2	Run Casing		M/U L/D BHA		RSPP 1	150	Shaker Make		FSI
Reaming		Cementing		Wellhead		ST/Min 1	60	Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		RSPP 2	125		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		ST/Min 2	30	Vol UF (l/min)		
Tripping	6 3/4	Test BOPs		W.O GEN		MACP(kPa)	1400	U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services		Calc Hole Fill		O.F. (kg/m3)		
Repair Rig	/ 1/2	DST		Mix LCM Pill		Act Hole Fill	44.54 00	Hours/Days		
Rig Service	1/4	Hndle Tools		Total Hrs	24	Lst BOP Drill:	11-NOV-06	Boller Hrs:		(to 24:00)
24 HOUR SUM	MARY FOR	THE DATE :	1	Novembe	r 13, 2006	(0000 hrs -	2400 hrs)			
0.00	7:30	7.50	Rig Repair	- Work on To	n Drive		_vent			
7:30	8:15	0.75	POOH from	1 60m to surfa	ce. Function	Test blind r	ams while o	ut of hole.		
8:15	14:15	6.00	Make up bi	t and RIH to 5	581m					
14:15	18:30	4.25	Drill from 5	81m to 592m						
18:30	18:45	0.25	Rig Service)						
18:45	0.00	5.25	Drill from 5	92m to 607m						
	0.00		1							
	0.00									
	0.00									
	0.00									
24 HOUR Fores	0.00									
24 HOUR Force Continue to drill	ast : 155.6mm hc	le.								

Flat Bay #5						REPORT #:	21	DATE:	Novem	ber 15, 2006
DEPTH 24:00:	655	.0 m	PROGRESS	48.0	0 m	Last 24 Hr Ro	tating Time:	22.00 hr	Ave ROP:	2.2 m/hr
OPER 06:00:	Drill Ahead					FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	C	lear	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll F	and RD10	TEMP.:	6	5°C	T.P. MOBILE:	
FORMATION:	Anhydrite/	Limestone/	K.B. ELEV.:	3.3	8 m	ROADS:	G	iood		1
						1		1		
		RMANCE	1	SUR	/EYS	DRILLIN	G FLUID		PUMPS	i
Bit No.	0 156			112 m	1.00 °	Lime	20:00	Pump No.	1 Cordnor Dr	onvor
Size (mm) Mfa	Reed			152 m	3.00 2.75 °	Deptri(m)	1130	Madel	PY-7	enver
Type	SI 43H			175 m	2.70°	Mud Grad	1100	Liner X Stk	6"	
Serial #	NM3942			316 m	5.00 °	Vis	29	SPM	75	
Nozzles	20/20/20			341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	581			470 m	8.75 °	YP		Pump Rate	0.39	
To (mKB)	653			607 m	9.50 °	Gels		Pump Press.	3,500	kPa
Meterage [m]	72.00					рН	8	Drillpipe AV		m/min
Hrs on Bit	31.50					WL (cc's)		Drillcollar AV		m/min
ROP [m/hr]	2.29					Filter Cake		Nozzle Vel		m/sec
RPM	/5					Sand (%)				
Condition						Solids (%)		Mu Mud Curli		min
Cum Meters	72 0					OII (%) Pf/Mf		iviua Cycle Bottoms Lin	32	min
Cum Hrs on Bit	31.50					MBT		Tanks	30	m3
Cum ROP [m/hr]	2.29					CI (ppm)		Hole Volume	13	m3
BOTTOMHOLE		(1			Ca (ppm)		System Vol.	43	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)	168			
1	Bit	6.375-in						Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	13.39	Hook Load:		DP size	4.5" 2 1/2" IE	Mud Up @				
Avaii WOB.		JIS DP Racks		DC Conn.	0.7/0" IF		м ³			
Jts DP in hole:		DP on Loc:	99	DP Conn:	2-7/8 IF	VOLUNIES	IVI 0			
	RATIONS		1 1/4	Move Rig	1	Water added	0	Mud Daily Cost		
Drill w/ fluid	22	Logging	1 1/4	Fishing		WELL CON		SOLIDS CO	NTROL	
Drill w/ air		Run Casing		M/U L/D BHA		RSPP 1	150	Shaker Make		FSI
Reaming		Cementing		Wellhead		ST/Min 1	60	Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		RSPP 2	125		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		ST/Min 2	30	Vol UF (l/min)		
Tripping		Test BOPs		W.O GEN		MACP(kPa)	1400	U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services		Calc Hole Fill		O.F. (kg/m3)		
Repair Rig		DST		Mix LCM Pill		Act Hole Fill		Hours/Days		
Rig Service	3/4	Hndle Tools		Total Hrs	24	Lst BOP Drill:	14-Nov-06	Boiler Hrs:		(to 24:00)
24 HOUR SUM	MARY FOR	THE DATE :	1	Novembe	r 14, 2006	(0000 hrs -	2400 hrs)			
	10	1.25	Survey at 6	\$07m		E	vent			
1:15	1:45	0.50	Rig Service	-						
1:45	23:00	21.25	Drill from 6	07m to 653m						
23:00	23:15	0.25	Rig Service	9						
23:15	0:00	0.75	Drill from 6	53m to 655m						
24 HOUR Fore										
24 HOUR Force	ast : 155.6mm hc	ble.								

Flat Bav #5						REPORT #:	22	DATE:	Novem	ber 16. 2006
DEPTH 24:00:	698	.0 m	PROGRESS	43.0) m	Last 24 Hr Ro	tating Time:	23.50 hr	Ave ROP:	1.8 m/hr
OPER 06:00:	Drill Ahead		.4			FOREMAN:	Bill V	Villiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND .:	Go	od	WEATHER:	C	Clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	(5°C	T.P. MOBILE:	
FORMATION:	Anhydrite	Limestone	K.B. ELEV.:	3.3	m	ROADS:	Ģ	Good		
						•				
	BIT PERFOF	RMANCE		SUR	/EYS	DRILLIN	IG FLUID		PUMPS	
Bit No.	6			112 m	1.00 °	Time	20:00	Pump No.	1	
Size (mm)	156			132 m	3.00 °	Depth(m)	695	Make	Gardner De	enver
Mfg.	Reed			154 m	2.75 °	Density	1250	Model	PY-7	
Туре	SL43H			175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #	NM3942			316 m	5.00 °	Vis	29	SPM	75	
Nozzles	20/20/20			341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	581			470 m	8.75 °	YP		Pump Rate	0.39	
To (mKB)	698			607 m	9.50 °	Gels		Pump Press.	3,500	kPa
Meterage [m]	55.00					pH M/L (oo'o)	ð			m/min m/min
	2 12					VVL (CCS)				m/min
	75					Sand (%)		NOZZIE VEI		III/Sec
Condition	/0					Solids (%)		м	JD & CHEM	
Pulled For?						Oil (%)		Mud Cvcle	112	min
Cum Meters	117.0					Pf/Mf		Bottoms Up	34	min
Cum Hrs on Bit	55.00					MBT		Tanks	30	m3
Cum ROP [m/hr]	2.13					CI (ppm)		Hole Volume	13	m3
BOTTOMHOLE	ASSEMBLY	/				Ca (ppm)		System Vol.	43	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)				
1	Bit	6.375-in						Mud & Chemica	als Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	13.39	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
							2			
Jts DP in hole:	90	DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	M ³			
Jts DP in hole: DRILLING OPE	90 RATIONS T	DP on Loc: ME BREAK	99 DOWN	DP Conn:	2-7/8" IF	VOLUMES Water added	M³	Mud Daily Cost		
Jts DP in hole: DRILLING OPE RU / TO	90 RATIONS T	DP on Loc: ME BREAK Survey	99 (DOWN	DP Conn: Move Rig	2-7/8" IF	VOLUMES Water added Losses	M³ 0 0	Mud Daily Cost Mud Cum Cost		
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid	90 RATIONS T 23 1/2	DP on Loc: ME BREAK Survey Logging	99 (DOWN	DP Conn: Move Rig Fishing	2-7/8" IF	VOLUMES Water added Losses WELL COM	M ³ 0 0 NTROL	Mud Daily Cost Mud Cum Cost SOLIDS CO	NTROL	
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air	90 RATIONS T 23 1/2	DP on Loc: ME BREAK Survey Logging Run Casing	99 (DOWN	DP Conn: Move Rig Fishing M/U L/D BHA	2-7/8" IF	VOLUMES Water added Losses WELL COM	M ³ 0 0 NTROL 150	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	FSI
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming	90 RATIONS TI 23 1/2	DP on Loc: ME BREAK Survey Logging Run Casing Cementing	99 (DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead	2-7/8" IF	VOLUMES Water added Losses WELL COM RSPP 1 ST/Min 1	M ³ 0 0 150 60	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mash	NTROL	FSI 180
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	90 RATIONS TI 23 1/2	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC	99 DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting	2-7/8" IF	VOLUMES Water added Losses WELL COP RSPP 1 ST/Min 1 RSPP 2	M ³ 0 0 150 60 125 00	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripalize	90 RATIONS TI 23 1/2	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC NU BOP's Text DOD	99 DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud	2-7/8" IF	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2	M ³ 0 0 150 60 125 30 1400	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Luchaiset Bis	90 RATIONS TI 23 1/2	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Define Cent	99 DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN	2-7/8" IF	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) cale klef Eff	M ³ 0 0 150 60 125 30 1400	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O. 5. (//m(m2))	NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Penair Ria	90 RATIONS TI 23 1/2	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST	99 DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix L CM Pitt	2-7/8" IF	VOLUMES Water added Losses WELL CON RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Eill	M ³ 0 0 150 60 125 30 1400	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours (Days	NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Pin Sensica	90 RATIONS TI 23 1/2 1/2	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hurdle Toole	99 DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hre	2-7/8" IF	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Act Hole Fill Let BOD poill	M ³ 0 0 150 60 125 30 1400	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (//min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service	90 RATIONS TI 23 1/2 1/2 1/2	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	99 DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs	2-7/8" IF	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill:	M ³ 0 0 150 60 125 30 1400 14-Nov-06	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR SUMI	90 RATIONS T 23 1/2 1/2 MARY FOR	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Durstion	99 DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe	2-7/8" IF 24 15, 2006	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	M ³ 0 0 150 60 125 30 1400 14-Nov-06 2400 hrs)	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR SUMI From 0:00	90 RATIONS TI 23 1/2 1/2 MARY FOR 11:45	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 11 75	99 DOWN	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe 55m to 678m	2-7/8" IF 24 r 15, 2006	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	M ³ 0 0 150 60 125 30 1400 14-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
Jts DP in hole: DRILLING OPE RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Rig Service 24 HOUR SUMI From 0:00 11:45	90 RATIONS TI 23 1/2 1/2 MARY FOR To 11:45 12:00	DP on Loc: ME BREAK Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 11.75 0 25	99 DOWN Drill from 6 Rig Service	DP Conn: Move Rig Fishing M/U L/D BHA Wellhead Safety Meeting Mix mud W.O GEN Wait on services Mix LCM Pill Total Hrs Novembe 55m to 678m	2-7/8" IF 24 r 15, 2006	VOLUMES Water added Losses WELL COI RSPP 1 ST/Min 1 RSPP 2 ST/Min 2 MACP(kPa) Calc Hole Fill Lst BOP Drill: (0000 hrs -	M ³ 0 0 150 60 125 30 1400 14-Nov-06 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter	FSI 180 Centrifuge (to 24:00)
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Flat Bay #5						REPORT #:	23	DATE:	Novem	ber 17, 2006
DEPTH 24:00:	719	.0 m	PROGRESS	: 21.0	0 m	Last 24 Hr Rot	ating Time:	13.50 hr	Ave ROP:	1.6 m/hr
OPER 06:00:	Pull out of h	ole				FOREMAN:	Bill V	/illiams	MOBILE NO .:	709-689-9673
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	C	lear	TOOLPUSH:	
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	6	5°C	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:	3.3	3 m	ROADS:	G	ood		
	BIT PERFOR	RMANCE		SUR	VEYS	DRILLIN	g fluid		PUMPS	
Bit No.	6			112 m	1.00 °	Time	20:00	Pump No.	1	
Size (mm)	156			132 m	3.00 °	Depth(m)	695	Make	Gardner D	enver
Mfg.	Reed			154 m	2.75 °	Density	1250	Model	PY-7	
Туре	SL43H			175 m	3.50 °	Mud Grad		Liner X Stk	6"	
Serial #	NM3942			316 m	5.00 °	Vis	29	SPM	75	
Nozzles	20/20/20			341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)	581			470 m	8.75 °	YP		Pump Rate	0.39	
To (mKB)	719			607 m	9.50 °	Gels	0	Pump Press.	3,500	kPa
Meterage [m]	138.00					pH	8	Drillpipe AV		m/min
Hrs on Bit	63.00					VVL (CC'S)		Drillcollar AV		m/min
ROP [m/nr]	75					Filter Cake		Nozzie vei		m/sec
Condition	75					Salide (%)		MI		
Pulled For?								Mud Cyclo	113	min
Cum Meters	138.0					Pf/Mf		Bottoms LIn	35	min
Cum Hrs on Bit	63.00					MBT		Tanks	30	m3
Cum ROP [m/hr]	2.19					CI (ppm)		Hole Volume	14	m3
BOTTOMHOLE	ASSEMBLY	/	1	1		Ca (ppm)		System Vol	44	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	Salinity (mS)			I	
1	Bit	6.375-in						Mud & Chemica	Is Added:	
2	Stab	6-in		2-7/8" IF		Mud Co.				
3	Drill Collar	4.75-in		3-1/2" IF		Mud Man				
BHA Length:	13.39	Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole:	90	DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	M ³			
DRILLING OPE	RATIONS TI	ME BREAK	DOWN			Water added	0	Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses	0	Mud Cum Cost		
Drill w/ fluid	13 1/2	Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		M/U L/D BHA		RSPP 1	150	Shaker Make		FSI
Reaming		Cementing	1	Wellhead		ST/Min 1	60	Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting	1/2	RSPP 2	125		Desilter	Centrifuge
Cond / Circ	1	NU BOP's		Mix mud		ST/Min 2	30	Vol UF (l/min)		
Tripping	8	Test BOPs		W.O GEN		MACP(kPa)	1400	U.F. (kg/m3)		
Lubricate Rig		Drill Out Cmt		Wait on services		Calc Hole Fill		O.F. (kg/m3)		
Repair Rig		DST		Mix LCM Pill		Act Hole Fill		Hours/Days		
Rig Service		Hndle Tools		Total Hrs	24	Lst BOP Drill:	14-Nov-06	Boiler Hrs:		(to 24:00)
24 HOUR SUM	MARY FOR	THE DATE :		Novembe	r 16, 2006	(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0:00	13:30	13.50	Drill from 6	98m to 719m	- TD					
13:30	14:30	1.00	Circulate	المتحاجما البرم	(hala					
14:30	18:30	4.00	Pop in hel	, pullea out of						
10.30	22.30	4.00	Hold sofot	/ mooting piro	to 7 19 III	a				
22.30	23.00	1.00	Diggod in (meeting piro	inmont to p	iy Imp plug # 1				
23.00	0.00	1.00	Rigged III (cententing equ		imp plug # 1				
	1									
	1									
	3									
24 HOUR Forca	ast :									
24 HOUR Force Pump cement p	ast : lugs as per p	rogram								

Diff Principal Print Print Print	Flat Bay #5		Flat Bay #5							Novem	ber 18, 2006	
Desire assoc Tearing out rig House right Constance Bill Willings Constance Rain Constance Data Cost House ring GOod Watamers Rain Constance Bill Willings Constance Display	DEPTH 24:00: 719.0 m PROGRESS:					Last 24 Hr Rotating Time:			Ave ROP: #DIV/0!			
DALY CODT HOLE DOD DOD ALTER POINT TOPAL ADDT INCLUDODT: Ker Herk Ingersol Rand RDV CLASSE B°C FX MOBILLING FLUID International BT PERFORMANCE SURVEYS DALLING FLUID PUMPIS International B.C. SURVEYS DRLLING FLUID PUMPIS International B.C. SURVEYS DRLLING FLUID PUMPIS King Control 132 m 3.00 Dread PUMPIS International Control Sing (mm) 166 132 m 3.00 Dread PUMPIS International Control PV-7 Type Statast 3.00 Note Pumpiss 6 PV-7 Type Statast 470 m 7.50 m PV Pumpiss 0.30 mm Topinskit 180 contro 470 m 7.50 m PV Pumpiss 0.00 mm Statast 90 pointer 90 pointer 2.78 m Process P 0.00 mm Statast Pointer 3.00 m Process P	OPER 06:00: Tearing out rig						FOREMAN:	Bill Williams		MOBILE NO .:	709-689-9673	
Cut do Corr Ingerso / Inge	DAILY COST:			HOLE CND.: Good		WEATHER:	F	Rain	TOOLPUSH:			
Orion/LON (D.S.LEV. 0.3 ml (D.Outor COUD COUD COUD PUMPS Bit 70 6 5 112 ml 1.00 ml Time 2000 Name No. 1 Bit 70 6 5 112 ml 1.00 ml Time 2000 Name No. 1 Name No. Name No. Name No. Name No.<	CUM COST:			RIG / RIG #: Ingersoll Rand RD10		TEMP.:	(5°C	T.P. MOBILE:			
BIT PERFORMANCE SURVEYS DRILLING FLUID PUMPS Gar No. 6 112 m 1.00 ° Time 2000 Funp No. 1	FORMATION:			K.B. ELEV.:	K.B. ELEV.: 3.3 M		ROADS:		0000		1	
BIT Disk Disk <thdisk< th=""> Disk Disk D</thdisk<>										DUMDS	<u> </u>	
Bit Garden Dense Max Object Garden Dense Type Ske91 Ske91 <td< td=""><td>Rit No</td><td></td><td></td><td></td><td>112 m</td><td>1 00 °</td><td></td><td>20.00</td><td>Rump No.</td><td></td><td>)</td></td<>	Rit No				112 m	1 00 °		20.00	Rump No.)	
Mig Read 154 m 2.75 s Serial J Seria J Serial J Serial J <t< td=""><td>Size (mm)</td><td>156</td><td></td><td></td><td>132 m</td><td>3.00 °</td><td>Depth(m)</td><td>695</td><td>Make</td><td>Gardner D</td><td>enver</td></t<>	Size (mm)	156			132 m	3.00 °	Depth(m)	695	Make	Gardner D	enver	
Type SL-3H Harr X 80 Mud Grad Mud Grad Mur X 80 Mar X 80 6° Nozzie 2020/20 316 m 5.00 ° N/ Purp Etc. 96% Nozzie 2020/20 N 316 m 5.00 ° N/ Purp Etc. 96% Nozzie 300 11 7.50 ° N/ Purp Etc. 96% Nozzie 300 607 m 9.50 ° Purp Etc. 96% Purp Putp St. 3.500 ° N/ RM 133.00 Nozie 960 ° N/	Mfg.	Reed			154 m	2.75 °	Density	1250	Model	PY-7		
Senial # NN3942 Safe model Safe model <td>Туре</td> <td>SL43H</td> <td></td> <td></td> <td>175 m</td> <td>3.50 °</td> <td>Mud Grad</td> <td></td> <td>Liner X Stk</td> <td>6"</td> <td></td>	Туре	SL43H			175 m	3.50 °	Mud Grad		Liner X Stk	6"		
Nozzles 2020/20 From (mK8) 51 138.00 Hrs on Bit 63.00 Rom (mK8) 719 Rom (mK8) 75 Condition 75 Condition 75 Rom (mK8) 75 Rom (m	Serial #	NM3942			316 m	5.00 °	Vis	29	SPM	75		
From mKb) 581 From KKb 581 Meterage (m) 138.00 ROP Infmit 75 Condition 75	Nozzles	20/20/20			341 m	7.50 °	PV		Pump Eff.	95%		
Io (mRs) (19) DU/m 9.00/m 9.00/m 9.00/m 9.00/m 9.00/m Purp Res. All para Purp Res. <	From (mKB)	581			470 m	8.75 °	YP		Pump Rate	0.39		
Image (m) 135.00 mmm mmm mmm mmm mmm mmm ROP (mhr) 75 mmm	To (mKB)	120.00			607 m	9.50 °	Gels	0	Pump Press.	3,500	kPa	
Important Bottom Important Bottom Important RPM 75	Meterage [m]	130.00 63.00					pH WL (cc's)	0	Drillpipe AV		m/min m/min	
Ref 75 MUD & CHEMICALS Condition TD MUD & CHEMICALS Cum Meess 138.0 Circle No. Item Max OD Min ID Sort MMO Assembly Samity (mS) 1 2 Stab 64n 13.39 Hook Load DP area 4.5.5 Avail VOR: Jare P Rada 0 Concer 3-1/2' IF Mud & DeP noke: 90 pontoc: 91 Pontoc: Num of the what Logging More Rig Hole Rig Nat Daily Cost Num of the what Noc Cost O Stater Make FSI Noc Cost 0 Stater Make FSI Stater Make FSI Noc Cost 0 Stater Make Stater Make FSI Stater Make Rending <	ROP [m/hr]	00.00					Filter Cake		Nozzle Vel		m/sec	
Condition Pulse For? TD MUD & CHEMICALS Com Markers Cam Markers Cam Markers Cam Markers Cam RoP (mm) 2.19 13.3 min Max COL 113 min Max Markers States Hein 2.19 MUD & CHEMICALS No. Item Max COL Min ID Connection Size & Type States Hein 3.30 State Hein 3.30 Min ID Connection Size & Type States Hein 3.30 State Hein 3.30 Hein 3.30 Mud & Co- Hard Cote Mud Uo Hud Cote Hud Vulo 4.4 Mud & Co- Hud Uo Hud Cote Aud Wulo 4.4 Mud & Co- Hud Uo Hud Cote Hud Cote Hud Cote Hud Uo Hud Cote Hud Co	RPM	75					Sand (%)					
Pulse For? TD Control 138.0 Con Means 148 Con Means 144 mas 200 mass 200	Condition						Solids (%)		M	JD & CHEN	IICALS	
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Curn Mei maß 63.00 Mar BOTTOMHOLE ASSEMBLY Cit (ppm) Cit (ppm) Cit (ppm) Cit (ppm) 1 Bit 6.375-in Cit (ppm) Cit (ppm) Sainity (mS) 2 Stab 6-in 2.718° IF Mut Oc. Mut Oc. 3 DDTICOllar 4.75-in 3-1/2° IF Mut Oc. Mut Del Mut Del 4H-Linght: 13.39 Hock Load: OP are a 3-1/2° IF Mut Up @ 3 DDTICOllar 4.75-in 3-1/2° IF Mut Up @ Mut Del Mut Del 4Mar WOB: BD P are bac 99 OP com: 2-7/8° IF Mut Up @ Mut Del Solutes Mut Del Mut	Cum Meters	138.0					Pf/Mf		Bottoms Up	35	min	
Cum Ruff (mm) 2.1 9 Image: com Ruff (mm) Car (pm) Feb Volume 14 m3 No. Item Max OD Min ID Comport (pm) Car (pm) Sainly (ms) Mud Addition 1 Bit A 5375-in 3 2 Stab 6-in 2 7.75'n 3 5-172' IF Mud Co. Mud Addition Stab Packs 9 0.0''' 2-7/8'' IF Mud Up B Mud Addition Mud A	Cum Hrs on Bit	63.00					MBT		Tanks	30	m3	
BOT MUNCLE ASSENDET 44 44 44 1 No. 1 Bit in Max OD Min ID Connection Size & Type Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Samin (m.s.) Mud 2 Control Mud 2 De Max may make a doc Comm. Add for the top for top for the top for top for top top for top for the top for top for the top for top t		2.19					CI (ppm)		Hole Volume	14	m3	
No. No. <td>No</td> <td>Itom</td> <td></td> <td>Min ID</td> <td>Connection</td> <td>Size & Type</td> <td>Ca (ppm) Solinity (mS)</td> <td></td> <td>System Vol.</td> <td>44</td> <td>m3</td>	No	Itom		Min ID	Connection	Size & Type	Ca (ppm) Solinity (mS)		System Vol.	44	m3	
2 Stab 6-in 2-7/8" IF Mud Co. 3 Drill Collar 4.75-in 3-1/2" IF Mud Man Mud MoB: 3-1/2" IF Mud Man Mud Man Avait WOB: 3-b 0 P Radas DC Com: 3-1/2" IF Mud Up @ Materia 9 DP Radas DC Com: 3-1/2" IF Vol UMRES Materia Avait WOB: 3-b 0 P Radas DC Com: 3-1/2" IF Vol UMRES Materia Mud Daily Cost But Drink Mar Bar Prink Bar Prink Bar Prink Mud Daily Cost Mud Daily Cost Mud Viria Logging Bar Prink Mud Daily Cost Mud Daily Cost Mud Daily Cost Mud Viria Logging Bar Prink Mud Daily Cost Mud Daily Cost Mud Daily Cost Mud Viria Logging Camering 3 1/2 Wellwad STMin 1 60 Shaker Make FSI Reaming Camering 3 1/2 Weitwad STMin 2 30 Shaker Make FSI Reaming Dor	1	Bit	6.375-in		Connection		Samity (113)		Mud & Chemica	als Added		
3 Drill Collar 4.75 · in 3-1/2" IF Mud Man BHA Langh: 13.39 Hoot Load: OP size 4.5" Avail WOB: US DP Racks OC Conn. 3-1/2" IF Vol LUMES Mud Dag Jts DP In hale: 90 OP on Loc 99 OP Conn. 2-7/8" IF Vol LUMES Mud Dag DRILLING OPERATIONS TIME BREAKCOWN Move Rig Water added 0 Mud Con Cost Mud Cost Drill w fluid Logging Fishing Mud LD BHA Staker Make FSI Rearning Comerening MU LD BHA Staker Make FSI Rearning Comerening MU LD BHA Staker Make FSI Rearning WOC 6 Satery Meeting Staker Make FSI Rearning WOC Crit Mut or services 4 Mut or services 4 Mater Big Dril Out Crit Water services 4 Mut or services 4 Regain Rig Dril Out Crit Water services 4 Mut or services	2	Stab	6-in		2-7/8" IF		Mud Co.					
BitA Length: 13.39 Hose Load: OP size 4.5" Mud Up @ Image: Conc. 2.7/8" IF VolUMES M ³ Avail WOB: 90 0 P on Loc: 99 99 De Conc. 2.7/8" IF VolUMES M ³ DRILLING OPERATIONS TIME BREAKDOWN Move Rig Loages 0 Mud Daily Cost. Solub S CONTROL Solub S CONTROL Solub S Control. So	3	Drill Collar	4.75-in		3-1/2" IF		Mud Man					
Avail WOB: Jab DP Racks DC Conn: 3-1/2" IF Vol UMEs M3 Ata DP In hole: 90 DP on Loc: 99 DP Conn: 2-7/8" IF Vol UMES M3 Ru DP In hole: 90 DP on Loc: 99 DP conn: 2-7/8" IF Vol UMEs M3 RU DP RACKS Survey Move Rig Move Rig Mater added 0 Mud Cam Cost	BHA Length:	13.39	Hook Load:		DP size	DP size 4.5"						
Jis DP In hole: 90 pP on Loc: 99 pP cons: 2-7/8" IF VOLUMES M" DRILLING OPERATIONS TIME BREAKDOWN Water added 0 Mud Daily Cost	Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF	-	2				
DRLLING OPERATIONS TIME BREAKDOWN Water radeed Logging Mud Daily Cost RU/TO Survey Move Rig Participation	Jts DP in hole:	90	DP on Loc:	99	DP Conn:	2-7/8" IF	VOLUMES	M				
RU/TO Dott wif fluid Diff wif fluid Diff wif fluid Diff wif wif New Fig Reamin	DRILLING OPE	RATIONS T	IME BREAK	DOWN	1		Water added	0	Mud Daily Cost			
Onlit wind Logging Finding WULD BHA State CONTROL SOLLOS CONTROL Remaing Cementing 3 1/2 Weilhead STMin 1 150 Shaker Make FSI Remaing WOLD BHA RSPP 1 150 Shaker Make FSI Remaing WOC 6 Satery Meeting RSPP 1 150 Shaker Make FSI Cond / Circ 11/4 NU BOPs 11/2 Mix mud STMin 2 30 Vol UF (//min) Desilter Centrifuge Arr Hole Rig Diff Out Cmt Wat on services 4 Cate Hole Fill Hours/Days (// o.2400) DF. (kg/m3) O.F. (kg/m3)	RU/TO		Survey	Move Rig Losses 0 Mud Cum Cost								
Unit water From To Duration State Marke Form Regening A 1/2 Wollbeard STMin 1 Government State Mesh 180 Remaing WOC 6 Satery Meeting State Mesh 180 Cond / Circ 1 1/4 NU BOP's 1 1/2 Mix mud State Mesh 180 Trepping 7 3/4 Test BOPs WO OC Mix LCM Pill State Mesh 0.F. (kg/m3) 0.F.	Drill w/ fluid		Logging		Fishing		WELL CON	150	SOLIDS CO		ESI	
Name Oracle Oracle Number of the state Numer of the state Numer of the state	Drill w/ air Reaming		Run Casing	3 1/2	Wellbead		RSPP 1 ST/Min 1	60	Shaker Make		180	
Cond / Circ 1 1/4 NU BOP's 1 1/2 Mix mud STMin 2 30 Vol UF (l/min) U.F. (kg/m3) Thipping 7 3/4 Test BOP's Mix mud Wix on services 4 AcaCHole Fill 1400 U.F. (kg/m3) 0.F. (kg/m3) Lubricate Rig Benil Out Cmt Difl Out Cmt Mix LCM Pill Act Hole Fill Act Hole Fill 14-Nov-O6 Boiler Hrs: (to 24:00) 24 HOUR SUMMARY FOR THE DATE : November 17, 2006 (0000 hrs - 2400 hrs) Event Event 0:00 1:30 2:15 0.75 Pulled out to 590 m. Event Event 2:15 3:00 0.75 Circulated bottoms up Signal Signal Signal Signal 3:00 6:00 1:00 Pulled out to 190 m. Signal	Rm Rathole		WOC	6	Safety Meeting		RSPP 2	125	Onaker Wearr	Desilter	Centrifuge	
Tripping Lubricate Rig Repair Rig Repair Rig 7 3/4 Dill Ou Cmt BST Test BOPs Dill Ou Cmt Hide Tools W.O GEN Wait on services 14 MACP(kPa) Lat Hole Fill Act Hole Fi	Cond / Circ	1 1/4	NU BOP's	1 1/2	Mix mud		ST/Min 2	30	Vol UF (l/min)		, C	
Lubricate Rig Repair Rig Drill Out Cmt DST Wait on services Mix LCM Pill 4 Catc Hole Fill Act Hole Fill Act Hole Fill O.F. (kg/m3) Hours/Days Construction 24 HOUR SUMMARY FOR THE DATE : November 17, 2006 (0000 hrs - 2400 hrs) Boiler Hrs: (to 24:00) 24 HOUR SUMMARY FOR THE DATE : November 17, 2006 (0000 hrs - 2400 hrs) Ito 24:00) From To Duration Event Event 0:00 1:30 1.50 Pumped balanced cement plug # 1 @ 719 m 619 m. as per program Ito 24:00) 3:00 6:00 3.00 Pulled out to 190 m. Ito 190 m 150 m. as per program Ito 24:00 10:00 11:00 1.00 Pulled out to 130 m. Ito 30 m. Ito 30 m. 12:30 18:30 6.00 Circulated bottom sup 19:30 Ito 30 m. Ito 30 m. 12:30 18:30 6.00 Circulated and waited on cement 19:30 Ito 30 m. Ito 30 m. 12:30 18:30 6.00 Circulated and waited on cement 19:30 Ito 30 m. Ito 30 m. 22:30 1.00 Pulled out to 30 m.	Tripping	7 3/4	Test BOPs		W.O GEN		MACP(kPa)	1400	U.F. (kg/m3)			
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21:00 22:00 1.00 Pumped cement plug # 3 @ 35 m20 as per program 22:00 22:30 0.50 Pulled out to 7 m circulated and flushed lines 22:30 0:00 1.50 Nipple down BOP's 24 HOUR Forcast : Tear out rig	20:30	21.00	0.50	Circulated	.0 00 111.							
22:00 22:30 0.50 Pulled out to 7 m circulated and flushed lines 22:30 0:00 1.50 Nipple down BOP's 24 HOUR Forcast : Tear out rig	21:00	22:00	1.00	Pumped cement plug # 3 @ 35 m20 as per program								
22:30 0:00 1.50 Nipple down BOP's 24 HOUR Forcast : Tear out rig	22:00	22:30	0.50	Pulled out to 7 m circulated and flushed lines								
24 HOUR Forcast : Tear out rig	22:30	0:00	1.50	Nipple down BOP's								
24 HOUR Forcast : Tear out rig												
24 HOUR Forcast : Tear out rig												
	24 HOUR Forca	151 :										
	rear out ny											

Flat Bay #5							25	DATE:	Novem	ber 19, 2006
DEPTH 24:00: 719.0 m PROGRESS:						Last 24 Hr Rot	tating Time:		Ave ROP:	#DIV/0!
OPER 06:00: Tearing out rig					FOREMAN:	OREMAN: BILL V		MOBILE NO .:	709-689-9673	
DAILY COST: HOLE C			HOLE CND.:	CND.: Good		WEATHER:	Rain		TOOLPUSH:	
CUM COST:			RIG / RIG #: Ingersoll Rand RD10		TEMP.:	6°C		T.P. MOBILE:		
FORMATION: K.B. ELEV.:			3.3 m		ROADS:	G	ood		1	
						1				
	BIT PERFOR			SURV	/EYS		G FLUID		PUMPS	5
Bit No.				112 m	1.00 °	Time Double (m)	20:00	Pump No.	1 Cordnor D	00107
Size (mm)				152 m	3.00 2.75 °	Depth(m)	090 1250	Make		enver
Type				175 m	2.75 3.50 °	Mud Grad	1250	liper X Stk	6"	
Serial #				316 m	5.00 °	Vis	29	SPM	75	
Nozzles				341 m	7.50 °	PV		Pump Eff.	95%	
From (mKB)				470 m	8.75 °	YP		Pump Rate	0.39	
To (mKB)				607 m	9.50 °	Gels		Pump Press.	3,500	kPa
Meterage [m]						рН	8	Drillpipe AV		m/min
Hrs on Bit						WL (cc's)		Drillcollar AV		m/min
ROP [m/hr]						Filter Cake		Nozzle Vel		m/sec
RPM						Sand (%)				
Condition						Solids (%)		M	JD & CHEM	IICALS
Pulled For?						Oil (%)		Mud Cycle	11	min
Cum Meters						Pt/Mt		Bottoms Up	20	min
						IVIB I CL (ppm)		Tanks	30	m3 m3
		/							30	m3
No Item Max OD			Min ID Connection Size & Type			Salinity (mS)		System vol.		1115
1	Rom	6.375-in				Commity (mic)		Mud & Chemica	Is Added:	
2		6-in		2-7/8" IF		Mud Co.				
3		4.75-in		3-1/2" IF		Mud Man				
BHA Length:		Hook Load:		DP size	4.5"	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	3-1/2" IF					
Jts DP in hole: DP on Loc:				DP Conn:	2-7/8" IF	VOLUMES	M ³			
DRILLING OPE	RATIONS TI	ME BREAK	DOWN			Water added	0 Mud Daily Cost			
RU / TO	24	Survey		Move Rig		Losses	0	Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		M/U L/D BHA		RSPP 1	150	Shaker Make		FSI
Reaming		Cementing		Wellhead		ST/Min 1	60	Shaker Mesh		180
Rm Rathole		WOC		Safety Meeting		RSPP 2	125		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		ST/Min 2	30	Vol UF (l/min)		
Tripping		Test BOPs		W.O GEN		MACP(kPa)	1400	O.F. (kg/m3)		
Repair Rig				Mix I CM Pill				O.F. (kg/III3) Hours/Davs		
Rig Service		Hndle Tools		Total Hrs	24	I st BOP Drill	14-Nov-06	Boiler Hrs:		(to 24:00)
			1	Novembo	18 2006	(0000 brs -	2400 brs)	Donor Fire.		(10 24.00)
Erom		Duration		November 18, 2006 (0000 hrs - 2400 hrs)						
0:00	0:00	24.00	Tear out ric	and prep to r	nove. Remo	ve wellhead.	Cut casing	1m below arc	ound level as	s per
			abandonm	ent program. F	Rig Release	November 1	8.	5		
					-					
24 HOUR Force	nst :									
Tear out rig and	move									
1										