

# FINAL WELL REPORT

Revision:	Version 0
<b>Operating Company:</b>	Vulcan Minerals Inc
Well Name:	Hurricane #2 (Whip #1)
Rig:	Ingersoll Rand RD10
Field:	Bay of St. George Basin
Location:	Western Newfoundland, Canada
Date:	23 January 2006
Revised On:	N/A

Prepared by:	Reviewed by:
Karla Smith, P.Eng Vulcan Minerals	Patrick Laracy, P. Geo Vulcan Minerals
July Solution Date: 16Feb05	Date: Rec. 16/06.
Date: 1010900	



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## 1 Introduction

Hurricane #2 (Whip #1) was the sixth well drilled by the operator, Vulcan Minerals Inc., in the Flat Bay field located in Bay of St. Georges, Newfoundland. (See map in Appendix A). The purpose of the well was to gather geological and geophysical data as a means to evaluate the economical potential of future field exploration and development for crude oil and/or natural gas production.

The drilling 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 876-m from rig floor (RF) vertical well was drilled in accordance with the Drilling Program Approval #DPA2005-116-01 and Authority to Drill Well #ADW2005-116-01-04 under Permit #03-107 (see Appendix B).

The Hurricane #2 (Whip #1) 340-mm cellar casing was set at 9.1mRF with 4.0-m<sup>3</sup> of cement for a good shoe to hold back the overburden. The 311-mm hole was drilled to 19.36-m then the 244.5-mm casing was set to 19.36-m and cemented into place with cement to surface. The 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 323-m. The 245-mm casing was run to 323-mRF and cemented into place with cement returns to surface. Due to partial lost circulation, cement level in the annulus dropped and a 0.75-m<sup>3</sup> cement top job was executed. Blow out preventors were nippled up and hi-low pressured tested against surface casing. Formation integrity test was executed at 326-m resulting in a calculated pressure gradient of 25-kPa/m. The hole was continued by drilling with air and a 158.75-mm BHA to a total depth of depth of 935-mRF. Open hole logs (High Density Induction, Digital Acoustic Log, Compensated Z-Densilog, Compensated Neutron, Gamma Ray, and Caliper) were run to 935-m. The well was then plugged back with three cement plugs and suspended.

## 2 General Information

Well Name	Hurricane #2 (Whip #1)	
Exploration Permit	03-107	
Drilling Program Approval	DPA 2005-116-01	
Authority to Drill Well	ADW 2005-116-01-04	
NAD 27 Coordinates	N 5347195.57	
	E 375854.54	
Survey System	Differential Survey Related To C.M. 84G4159	

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



## **3** Difficulties and Delays

## 3.1 Lost Circulation in Surface Hole Section

While drilling the surface hole section, full lost circulation was encountered at a depth of 89-meters when the hole was switched from air to fluid. A total of 30m3 of fresh water with saw dust was pumped before it was decided to drill blind for 3-meters to see if the drill cuttings would naturally heal the lost circulation zone. However, the zone was not healed so it was decided to pull out of the hole and place a balance cement plug as per lost circulation contingency plan. The total non-productive time for this delay was 23-hours.



## 4 Drilling Operations

## 4.1 Elevation

Well NameHurricane #2 (Whip #1)	
Ground Level	145.70-m MSL
Casing Flange	Not Applicable
Rig Floor	149.00-m MSL

## 4.2 Total Depth

Well Name	Hurricane #2 (Whip #1)		
Total Drilled Depth	935-mRF		
Logged Depth	323 to 935-mRF		
Plugged-Back Depth	35-m		

### 4.3 Important Dates and Status

Well Name	Hurricane #2 (Whip #1)	
Spud	24 November 2005	
Drilling Completed	11 December 2005	
Rig Release	15 December 2005	
Well Status	Suspended	

## 4.4 Hole Sizes and Depths

Well Name	Hurricane #2 (Whip #1)
311.1-mm Hole	19.4-mRF
219.1-mm Hole	89-mRF
215.9-mm Hole	323-mRF
158.8-mm Hole	935-mRF



### 4.5 Bit Records

	Hurricane #2 (Whip #1)							
Bit	Size	Туре	Depth	Depth	Meterage	Hours	ROP	Pulled
Number	[mm]		In	Out	[m]	[h]	[m/h]	Conditi
			[mRF]	[mRF]				on
1	311.	Hughes EP5070	4.00	19.36	15.36	12.5	1.23	CT
1	216.	Smith	19.00	20.00	1.00	1	1.00	
1	219.	Mission	20.00	89.00	69.00	5	13.80	Good
2	216.	Varel ET0537	89.00	92.00	3.00	1	3.00	Good
2RR	216.	Varel ET0537	92.00	95.00	3.00	0.75	4.00	Good
1RR	219.	Mission	95.00	133.00	38.00	6.25	6.08	
2RR#2	216.	Varel ET0537	133.00	225.00	92.00	69	1.33	WT
3RR	216.	Smith C3P	225.00	245.00	20.00	22	0.91	Good
4	216.	Hughes MXC530	245.00	323.00	78.00	70.25	1.11	Good
2	159.	Mission	323.00	935.00	612.00	37	16.54	

## 4.6 Casing Record

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

Well Name	Hurricane #2 (Whip #1)			
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	3	33		
Connection Type	8Rd Short	8Rd Short		
Depth of Shoe [mRF]	19	323		
Casing Hanger and Seal	N/A	Casing Head Type W		

## 4.7 Cementing Record

Well Name	Hurricane #2 (Whip #1)			
Casing Size [mm]	244.5	177.8		
Centralizer Spacing		As necessary		
Slurry Volume [m <sup>3</sup> ]	2.0	3.0		
Slurry Density [kg/m <sup>3</sup> ]	1820	1820		
Cement Class	А	А		
Cement Additives	1-liter per m <sup>3</sup> slurry Grace Adva 100	1-liter per m <sup>3</sup> slurry Grace Adva 100		
Cement Top [mRF]	3.3	3.3		
Cement Base [mRF]	19	323		
Basis of Top Estimate [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 sawdust with final properties that included mud weight of 1040-kg/m<sup>3</sup>, funnel viscosity 48-sec and 8pH.

The 219.1-mm surface hole section was drilled with air from the depth of 27-m to 150-m. The well was then switched to a fluid and the 215.9-mm surface hole section was drilled to 323-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 1010-kg/m<sup>3</sup>, funnel viscosity 32-sec and 8pH.

The 158.8-mm main hole section was drilled with air from the depth of 323-m to total depth of 935-m.

## 4.10 Fluid Disposal

Upon switching the drilling fluid from air to fluid in the surface section of the Hurricane #2 (Whip #1) hole, the well encountered lost circulation that was cured by pumping a cement plug (see section 3.1) the well continued to have partial lost circulation while drilling the surface hole section that was kept in control by pumping lost circulation material including saw dust and MI Kwik Seal. The total drilling fluid lost was 60m<sup>3</sup>.

## 4.11 Well Kicks

Not applicable.

## 4.12 Formation Leak-Off Tests

Formation integrity test was executed on Hurricane #2 (Whip #1) at 326-m with 1015-kg/m<sup>3</sup> mud weight to 5000-kPa that had no pressure drop during stabilization for a calculated pressure gradient of 25.4-kPa/m.



## 4.13 Time Distribution

Operation Type	Cumulative Time [hrs]	Cumulative Time [%]
Rig Up / Tear Out	0	0.0%
Drill with Fluid	176.25	31.8%
Drill with Air	47.25	8.5%
Reaming	0.75	0.1%
Coring	0	0.0%
Ream Rathole	0	0.0%
Condition & Circulate Mud	14	2.5%
Tripping	78	14.1%
Mix Drilling Fluid	10.5	1.9%
Rig Service	17.5	3.2%
Survey	7.5	1.4%
Logging	8.25	1.5%
Run Casing	5.5	1.0%
Cementing	4	0.7%
Wait on Cement	67.75	12.2%
Nipple Up/Down BOPs	11.25	2.0%
Test BOPs	8	1.4%
Drill out Cement	13.5	2.4%
Drill Stem Test	0	0.0%
Handle Tools	2.5	0.5%
Plug Back	1.75	0.3%
Fishing	0	0.0%
Work Pipe	0	0.0%
Mix Lost Circulation Material	10.25	1.9%
Safety Meeting	3	0.6%
BOP Drill	1.75	0.3%
Clean out Tanks	4	0.7%
Shut Down for Night	5	0.9%
Waiting on Materials	0	0.0%
Waiting on Services	39.5	7.1%
Waiting on Orders	5.5	1.0%
Pressure Integrity Test / Leak Off Test	1.75	0.3%
Make up Wellhead	8.5	1.5%
Total Operational Time	553.75	100.0%
Total Non-Productive Time	84.25	15.2%



## 4.14 Deviation Plot

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

Depth	Deviation	Measurement Tool
19-m	0.25°	Totco
171-m	2.00°	Totco
323-m	3.75°	Totco
473-m	4.00°	Totco
621-m	5.50°	Totco
737-m	4.00°	Totco
929-m	3.75°	Totco

## 4.15 Plug & Abandonment Scheme

Not applicable.

## 4.16 Well Schematic

See Appendix D for well termination reports and well schematics.

## 4.17 Fluid Samples

Not applicable.

## 4.18 Composite Well Record

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

## 5 Geology

## 5.1 Drill Cuttings

See Appendix F geological report completed by Corey Fitzgerald.

## 5.2 Cores

Not applicable.

## 5.3 Lithology

See Appendix F geological report completed by Corey Fitzgerald.

## 5.4 Stratigraphic Column

See Appendix G.

## 5.5 Biostratigraphic Data

Not applicable.



## 6 Well Evaluation

### 6.1 Downhole Logs

### Open Hole logging for Hurricane #2 (Whip #1).

Log Type	Depth Interval Logged
High Density Induction	935-m to 323-m
Compensated Z-Desilog	935-m to 323-m
Digital Acoustic Log	935-m to 323-m
Compensated Neutron	935-m to 323-m
Gamma Ray	935-m to 25-m
Caliper	935-m to 323-m

See Appendix H for open hole well logs completed by Baker Altas.

## 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

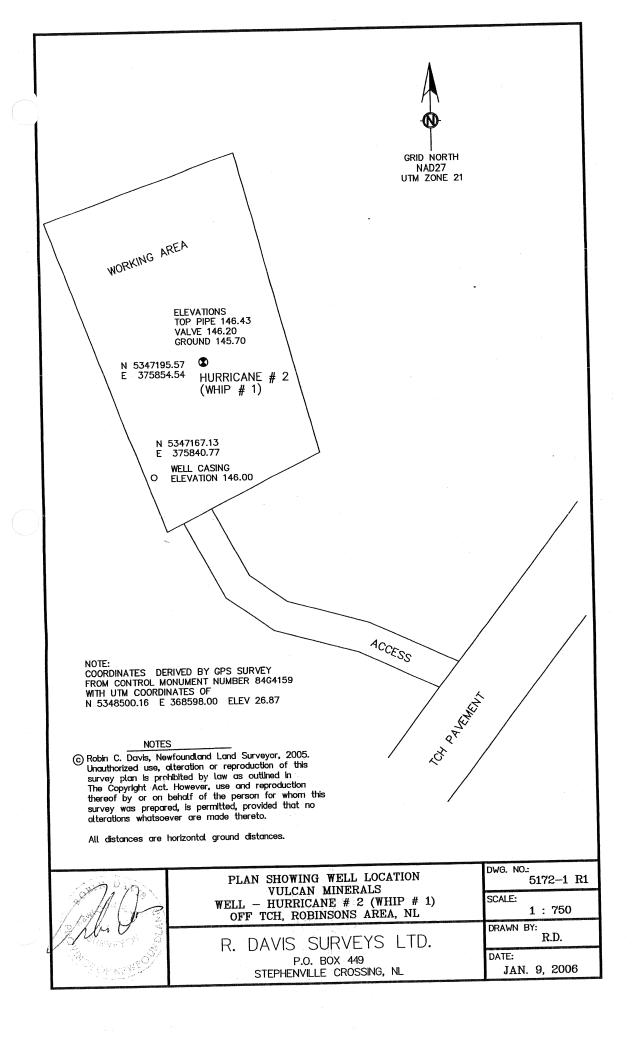
Not applicable.

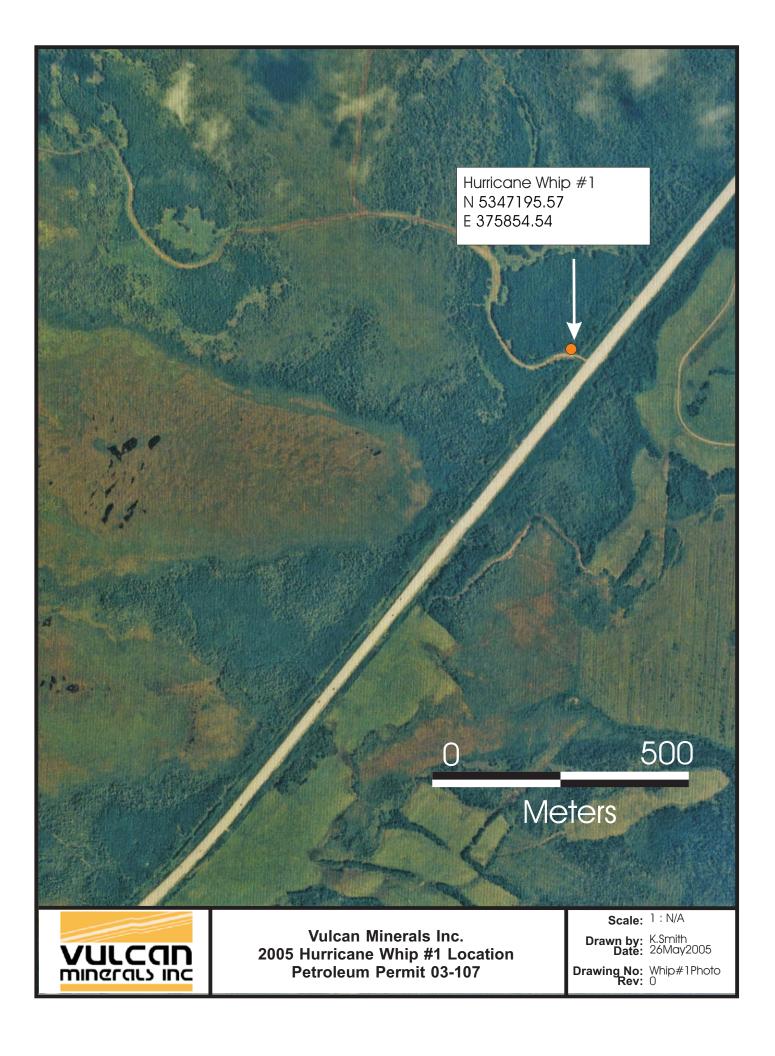
## 6.7 Formation Flow Tests

Not applicable.



# APPENDIX A: WELL LOCATION & MAP







# APPENDIX B: DRILLING PROGRAM APPROVAL AND AUTHORITY TO DRILL WELL



GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

Department of Mines & Energy

# DRILLING PROGRAM APPROVAL

### APPLICATION

Pursuant to sections 8 and 9 of the Petroleum and Natural Gas Act<sup>1</sup>, <u>Vulcan Minerals Inc</u>, as operator on behalf of <u>Vulcan Minerals Inc</u>, holding a subsisting licence, permit or lease issued pursuant to the Petroleum Regulations<sup>2</sup>, namely; <u>16-105/03-106/03-107</u> (licence, permit, or lease #) hereby applies for approval to conduct a drilling program using the drilling rig <u>Ingerscill Rand RDIO</u> and equipment and procedures described in the detailed program dated <u>IO June 2005</u>.

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

Signed **Operator's Representative** 

Date: June 10/05.

### 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:

- This Drilling Program Approval shall, unless otherwise extended or terminated, expire upon the <u>31st</u> day of <u>May</u>, 20 <u>06</u>;
- 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 Regulations*<sup>3</sup>, shall be provided by the operator to the Minister of Mines and Energy;
- The operator shall use the equipment and procedures described in the detailed program dated <u>July 8,2005</u>, 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: July 18,2005.

Drilling Program Approval No. 2005-116-01

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

#### AUTHORITY TO DRILL A WILL - APPLICATION

Parsuant to sections \$ and 9 of the Petroloum and Neural Gas Act and in compliance with section 29 of the Petroloum Drilling

Regulations'. Vulcan Minerals Inc. hareby applies for Authority to Dzill a Well to be known as Hurricane #2 (Whip #1) using the equipment and procedures described in the well program dated 10 August \_\_\_\_\_ 30 05\_ Parmit Licence or Lease to which this Program applies: 03-107

Area: Western New Joundland Field Provis HUKRICAWE		CO-OFFICATES				
			UTIM (MAD 27)			
Drilling 2 is		Lang: Lat:	Northing: Easting:	5347138m 375829m		
ingerson Rand RD10		ELEVATION	DEFTH			
Rug 1999: Single Hydraulic Drilling Contractor: Vulcan Minerals Inc.		GL: 150 M	HPD:	1000m		
IST MATES			TARGET BORIZONS 1000m			
Spud Date:	NOV. 20/05	Wall Cost:	Lower Carbonikennon - Ordovicia			
Days on Location:	20	\$700,000	Mat B		Mat Form ?	

EVALUATION FROCEAN

Yes-metre ample intervals:	Conventional coors at: NA
Pro-men maple marrie: dry + bagged	Loga and Twee:
Gammed samale intervals:	HRLA-CNL-DSI-MCFL-TDL-CAL

0.2. (1998)		Brada	Danting Danta	Comparing Program
244.5	53.6	J-55	60	Class A
177.8	25.3	H-40	250	Class A
114.3	14.1	J-55	1000	Class A as per Schlumberger Cement Program

21MPe BOPs, Rotating Head, and Annular Preventer

REALES But, to far best ROBLETE AND SOMEORY LED TE

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ALL OPPERINGE

#### AUTHORIZATION

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ces has just thinken under the Pateniese Deliver Republic a the Min inter of N al lea ter, ("Whe Regulations").

In accordance with section 32 of the Legislations, the operator samed in the Application is authorized to undertake the proposed well program devenient above subjet to the following estations:

 This Anthenimission shall be preasurably displayed at the well the at all fone t shuing which operation: are being conducted;
 Copies of all logs and well were deter thall be referring to the fine construct by the operator promptly after their acquisition;
 The operator shall comply with all conditions of the Daillary Program Approval No. 2005 - 116 - 01 under above well in to be shifted; under which the

No observed to be nearly.
 No observed nearly observed nearly to saide unlate it fars approved by the director is writing;
 This Artisocherion is could/doubl on the opposite counterstag failing within 120 days of the effective Archaelandon day; and
 The operator shall samply with rach other conditions as are appended to this Authorization.

12 22 Director Authority to Bail a Well No. 2005-116 -01-04

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1 R.S.N. 1960. L P-10

- CNR 1158/96



## **APPENDIX C: CEMENT PROPOSALS AND REPORTS**



## SURFACE CASING CEMENTATION PROGRAM

Revision:	Version 0
<b>Operating Company:</b>	Vulcan Minerals Inc
Hole Name:	Hurricane #2 (Whip #1)
Rig:	Ingersoll Rand RD10
Field:	Flat Bay
Location:	St. Georges Bay,
	Western Newfoundland, Canada
Date Issued:	21 November 2005
Date Revised:	N/A

## 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).

## **Owner and Operator's Name**

Vulcan Minerals Inc.

## **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

# **Drilling Contractor**

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

## **On-Site Representation**

Thomas Target Rig Manager T.M. Target Consulting Ltd. Cell: 709 649 4957 Karla Smith, P.Eng Project Manager Vulcan Minerals Cell: 709 746 2424

# Timing

The proposed cement program is estimated to occur on December 1, 2005.

# **Cement Operations Program**

### **Casing Properties**

Casing	244.5mm (9 5/8-in)	177.8mm (7-in)
Depth	52.7-m (173-ft)	250m (820-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

## **Pumping Volumes**

Section Capacity		Volume	Volume
		(0% Excess)	(75% Excess)
Annular – Casing to Casing	$0.0155 \text{ m}^3/\text{m}$	$0.77 \text{ m}^3$	$0.77 \text{ m}^3$
Annular – Casing to Open Hole $0.0118 \text{ m}^3/\text{m}$		$2.33 \text{ m}^3$	$4.08 \text{ m}^3$
Casing (Displacement)	0.0217 m <sup>3</sup> /m	$5.23 \text{ m}^3$	$5.23 \text{ m}^3$
Total	$3.10 \text{ m}^3$	$4.85 \text{ m}^3$	

### **Cement System**

Additives	Concentration
Class A Cement	
+ Grace Adva 100	1-liter per m <sup>3</sup> slurry
(Properties: decrease viscosity and thickness	
without compromising cement strength and anti-	
foam agent)	
Density $1821-kg/m^3$ (15.2-lb/gal)	
	10171

Fluid Base 611-litre of fresh water for 1217-kg cement

Tested Cement Strength: 21.7-MPa

## 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 4.9 m<sup>3</sup> assuming shoe at 250-m, 3-m rig elevation to ground level, and 75% access required) at a rate of approximately 0.3-m<sup>3</sup>/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 5.2 m<sup>3</sup> assuming shoe at 250-m and 9-m shoe track) at a rate of 0.6-m<sup>3</sup>/min assuming 95% pumping efficiency.
- 12. For the last 0.5m<sup>3</sup> 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.

# **Contingency for 177.8mm (7-in) Intermediate Casing**

## Plug Does Not Bump

The scenario that the plug does not bump, that means the casing cannot be pressure testing with wet cement. Therefore, if plug does not bump then the casing pressure test shall be conducted after cement is set.

## 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.

## 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

### WELL TERMINATION RECORD

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

Doc - 1424 243

40

well Name: Hurricane #2 (Whip #1)	CO-ORDINATES		
Operator: Vulcan Minerals Inc.		UTM (NAD 27)	
Drilling Rig: Ingersoll Rand RD10	Long: Lat:	Northing: 5 347 195.57 Easting: 375 854.54	
Rig Type: Hydraulic Single	ELEVATION	DEPTH	
Drilling Constructor: Vulcan Minerals Inc.	RT/KB/RF: 23 149.0 GL: 145.7	TD: 935 TVD: 935	
an a	FOR	NR USE ONLY	
Spud Date:         24 November 2005           TD Date:         11 December 2005           Rig Release Date:         15 December 2005           Well Termination Date:         15 December 2005	For the purpose of interpreting subsec Regulations, the rig release dow is de 	emed to be:	

#### CASING AND CEMENTING PROGRAM

O.D. (mm)	WEIGHT (kg/m)	GRADE	SETTING DEPTH (m)	CEMENTING DETAILS
244.5	53.6	J-55	19	0.5m <sup>3</sup> preflush, 1m <sup>3</sup> 1820-kg/m3 Class A, cement returns
177.8	25.6	H-40	323	0.5m <sup>3</sup> preflush, 7m <sup>3</sup> 1820-kg/m3 Class A, cement top job

#### PLUGGING PROGRAM

#### Karla Smith

Approval of the following program was obtained by (person)		
Wes Foote	of the Department of Natural Resources by means of	
from (person)	13 December 2005	
Letter	dated 10 December 2005	

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25

Type of Plug	Interval	Felt/Pressure Tested	Cement and Additives
Cement	58-35m	None	0.5m3 1820-kg/m3 Class A
Cement	338-290m	Felt	1.5m3 1820-kg/m3 Class A
Cement	935-835m	None	2.5m3 1820-kg/m3 Class A
<u> </u>			

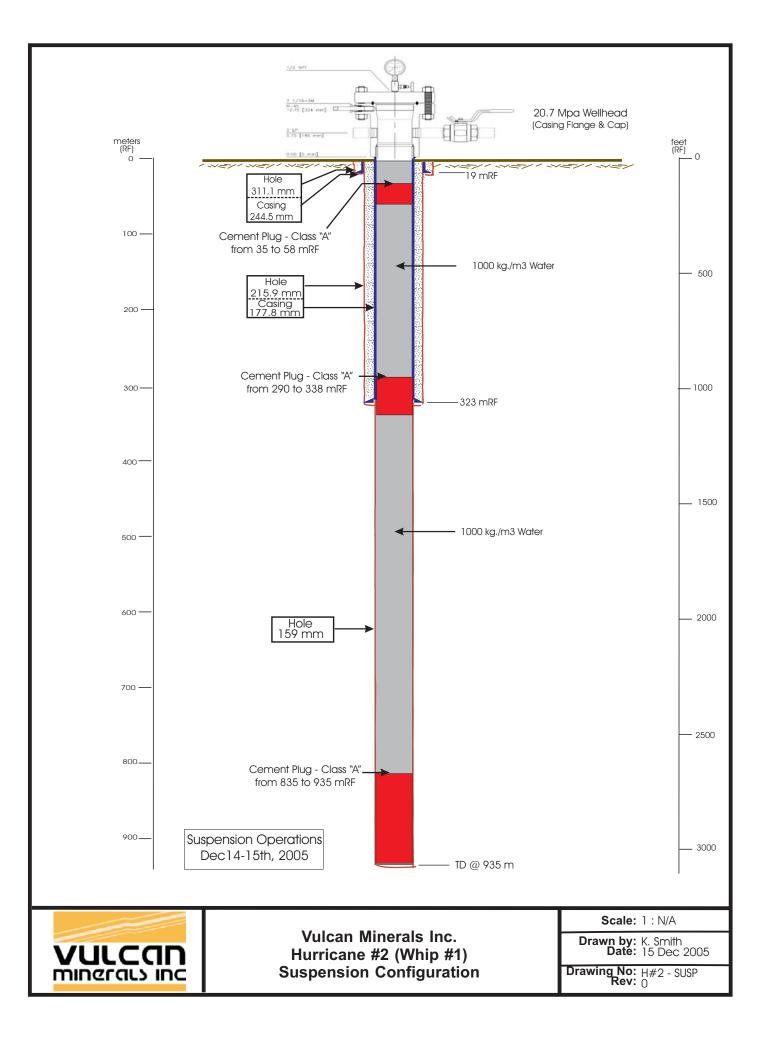
Lost Circulation/Overpressure Zones:

Downhole Completion/Suspension Equipment

3 Cement Plugs - see attached sketch

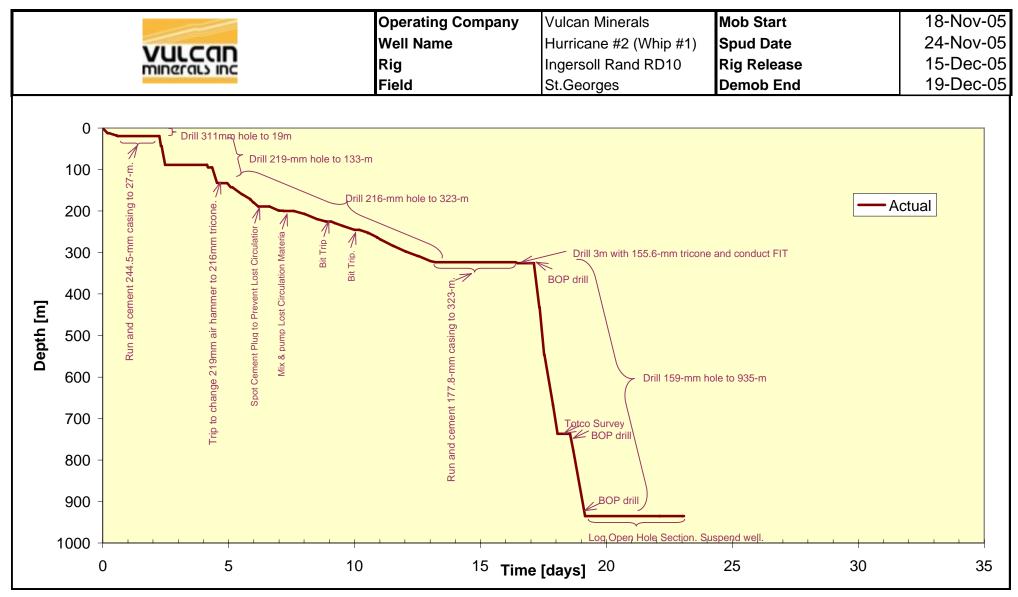
(Describe and Attach Sketch)

The undersigned operator's	Heresentative hereby of named well, the	DECLARATION leclares that on the basis of pers above information is thus, accu	onal knowledge of ope rate and complete.	rations undertaken at the above
signed TTA	Harry Name	The Lakers		Operator's Representative
Acknowledged by	1 A	ACKNOWLEDGEMEI		





# APPENDIX E: COMPOSITE WELL RECORD & TIME VERSUS DEPTH CURVE



Total Non-Productive Time 15.21%



# **APPENDIX F: DRILL CUTTINGS DESCRIPTION & LITHOLOGY**

Geological Report on

## **VULCAN MINERALS WHIP #1**

*in* Western Newfoundland

for VULCAN MINERALS INC.

**Prepared for:** Patrick Laracy **Prepared by:** Corey Fitzgerald BSc.

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### WELL ABSTRACT

Based on seismic anomalies Vulcan Minerals decided to drill the WHIP # 1 prospect. This well was spudded on November 22<sup>nd</sup>, 2005 @ 1100 hrs. Between 27.0 to 80.0 meters a water zone is present, which by 133.0 meters could no longer be drilled with air because too much water was entering the wellbore. Once we switched to drilling with fluids, there was a loss of circulation with no cutting returns between 133.0 to 198.0 meters. Surface casing was set @ 323.2 meters and a 159 mm main hole was drilled to a depth of 935.2 meters. Both AIR and FLUIDS were used on drilling surface hole, while on the main hole section only AIR was used. Total depth was reached on Dec. 11<sup>th</sup>, 2005 @ 1445 hrs. It should be noted that gas readings over the intervals drilled with AIR are not accurate.

### **FORMATION TOPS**

KB:

Formation	Prognosis	Sample Depth	Log Depth
	MD	MD	MD
OVERBURDEN	0.00	0.00	0.00
FICHELLS BROOK	380.00	0.00	N/A
SPOUT FALLS	N/A	195.0?	N/A

### **BIT RECORD**

Bit #	Size (mm)	Туре	Depth In (m)	Depth Out (m)	Meters Drilled	Hours	Serial number
1	311.00	Hughes	4.00	19.36	15.36	12.5	622507
1	216.00	Smith	19.00	20.00	1.00	1	MJ2029
1	219.00	Mission	20.00	89.00	69.00	5	B98290
2	216.00	Varel	89.00	92.00	3.00	1	136584
2RR	216.00	Varel	92.00	95.00	3.00	0.75	136584
1RR	219.00	Mission	95.00	133.00	38.00	6.25	B98290
2RR#2	216.00	Varel	133.00	225.00	92.00	69	136584
3RR	216.00	Smith	225.00	245.00	20.00	22	MJ2029
4	216.00	Hughes	245.00	323.00	78.00	70.25	6006124
2	159.00	Mission	323.00	935.00	612.00	37	A42766

Logging Company:	Baker	Hughes		G.L. (m):	
Engineer:	Y. (	Obiri		<b>K.B.</b> (m):	
Truck #:	HSL	8616		Mud Type:	Water
Mud Density (Kg/M):	Ν	/A		Bit Size (mm):	156.00
Water Loss (C.C.'s):	N/A		Depth: Driller (m)	935.20	
Viscosity (Sec):	N	/A		Depth: Logger (m)	931.90
RM:	Ohm-m @		$^{0}C$	Casing: Driller (m)	323.20
RMF:	Ohm-m @		$^{0}C$	Casing: Logger (m)	322.20
RMC:	<b>Ohm-m</b> @ <sup>0</sup> C				
Hole Conditions Remarks Prior to Logging:				Good	

### LOGGING REPORT

## Sequence of Operations

Logs	Time Spent			Remarks		
HDIL/GR	3.5					
DAL/ZDL/CN/GR	3					
Run in Hole:	2	Suc	ceeded:	2	Failed:	
Comments:						

### **MECHANICAL SUMMARY**

## Hole Size and Casing Summary

Stage	Hole Size	Interval	Casing	Casing
	(mm)	(m)	Size	Wt/Grd/Thread
Surface	216.00	0-323.2	178.00mm, 28.8 kg/m	H-40

## Mud System Summary

Mud Company:	N/A		Intervals (m – m)
Mud Type:	Surface / Main Hole:	AIR	30.0 - 150.0, 326.0-935.2
	Surface Hole:	FLUIDS	150.0-326.0

### **Deviation Surveys**

Depth	Angle
19.4	0.25
171.0	2.0
323.0	3.75
473.0	4.0
621.0	5.5
737.0	4.0
932.2	3.75

### **FORMATION EVALUATION**

### **Fichells Brook Formation**

The Fichells Brook formation in this well consists predominantly of a red brown clayey conglomerate, with silty and sandy sections. At approximately 790.0 meters the samples change to a sandstone with silt and shale sections losing the red brown clay in the above section for a green grey clay matrix. The conglomerate is described as light red brown, lithic, with varying amounts (10-80%) of rounded to sub angular predominantly very fine to medium grained, commonly silty, sandstone matrix. The conglomerate usually contains minor calcareous cement, and common red brown clay matrix. In addition it is friable with minor well indurated sections, varying amounts of (10-85%) rounded to angular red brown, gray green, and cream siliceous (quartzite, quartz, chert) clast fragments, and occasional amounts of limestone, and argillaceous clasts that range from 0.1 to 1.5 centimeters. The conglomerate predominantly exhibits tight to poor intergranular porosity with possible minor sections of fair porosity and trace fracture porosity. Only trace amounts of hydrocarbons are visible throughout the well and occur within the following intervals; 40.0-133, 280.0-310.0, 355.0-425.0, 690.0-745.0, and 865.0-925.0 meters. With such minor occurrences it may be safe to assume that most of the hydrocarbons are controlled by fractures. Gas readings over the intervals drilled with AIR (332.0 to 932.2 meters ) are not accurate and should be ignored. Based on sample descriptions and wireline logs, the Fichells Brook formation appears to have poor reservoir potential.

#### Corey Fitzgerald

III STRIP.LOG - WHIP # 1.slg											
File Edit Layout View Help											
Switch to drilling with AIR @ 95 m. Still	Т.	11			8 <sup>.</sup> 9	32.3					33-100 COLIN 100 M. TOU DITI, INTIR, TO A VI O TO BI 33 HIN, OUR
getting a large amount of water.	-	Ьł		🕺	80	200		HР			and clay cmt, mics, 60% silc clasts, occ Is clasts 0.5 - 2 cm,
	_	H	$\left  \right $	👸	ŏ8	200		Η.	R	0	assumed p to pos fair intgr por, tr dull yel flor, tr mod stmg
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	10 ₩	11		ø.	80						
- Bit #1 RR		Ηſ		<mark>8</mark> .	õ.	200			a		100-105 CGLN(100%): red brn, gn and gy, lithic, 30% vf to I c gr
' 219.0 mm		١x		T 💦	ŏ8	380	:	Шр			ss mtx, calc and clay cmt, mics, 70% qtzt, cht, qtz clasts, occ
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Hammer	-	Ιŀ			8.8	800		$\vdash$	R		slow strng yel flor cut.
B98290	-15			- 🔅	8.8	200		$\vdash$			105-110 CGLN(100%): red brn, gn and gy, lithic, 40% vf to I c gr
95-133.0 meters	`	H	$\left  \right  \left  \right $		õ.	200					ss mtx, calc and clay cmt, rd to sb ang, arg, mics, 60% qtzt,
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Large amount of water entering	부	11			0.0	200			R		110-115 CGLN(100%): predy red brn, lesser It wh gn sections,
wellbore with poor returns.	-	۱ŀ		- 8	õ. 8	200		$\left  + \right $	ľ		lithic, 80% predy of to med gr, mnr c gr ss mtx, sity ip, calc
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	_	H		<u>ș</u>	88	200			a		to p intgr por with tr fair intgr por in It gn sections, tr to tr sp
	3-	l L		- 8	8 8 8	200			а		yel flor, tr slow strng yel flor cut.
	÷	11		- <mark>8</mark>	ŏ.8	38.0					115-120 CGLN(100%): red brn, gn and gy, lithic, 70% vf to med
· L .		H			88	88.8			R		ss mtx, calc and inerg clay cmt, 30% red, crm, gn, and gy silc
· · · · · · · · · · · · · · · · · · ·		I۴			8.8	200		F			clasts, mnr is clasts up to 1.5 cm, p intgr por, tr fracs, tr dull
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NOT ACCORATE.		H		e e	8.8	200		L I F			gn, and gy silc clasts, mnr Is clasts up to 1.0 cm, p to tr fair
		H		e e	8.0	200 g			R		intgr por, tr fracs, tr dull yel flor, mod strng yel flor cut.
	ন <sub>ত</sub>			•	20	200					
	- 5	"		- <mark>8.</mark>	0.0	200					
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╎╎ <mark>╎</mark> ╎╎╎╎╎╎	-	IJ			8.0	000		$\vdash$	a		med gr ss mtx, sity ip, rd to sn ang, calc and clay cmt, sidc ip,
Too much water entering wellbore.	_	n	++++		8.8	80 e					fri, 30% wh gtz, red brn, gy and crm silc clasts, mnr is clasts
Unable to drill any further with AIR.	_	11			8.0	000		H-P			up to 1 cm, rd to ang, p to mnr fair intgr por, tr fracs, tr to tr
Switch to FLUIDS @ 133.0 meters.			Ш		õ.8	200		$\square$	R		sp yel flor, mod strng yel flor cut.
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Gas (%) 0	<mark>ා</mark> සි			$\left  \right $			$\vdash$	$\left  \right $			
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# **Detailed Sample Descriptions**

Geologist: Corey Fitzgerald Rig Manager: Tom Targett Engineer: Karla Smith

**5-10 SANDSTONE(100%):** light gray red, lithic, 50% clear to light red quartz grains, upper very fine to medium grained, moderately to poorly sorted, predominantly angular to sub rounded, occasional quartz overgrowths, calcareous and white to light green kaolinitic cement, friable, common varicolored siliceous fragments, common clear and translucent siliceous fragments, occasional white to gray calcareous and minor dolomitic fragments, assumed poor intergranular porosity, no shows.

**10-12.5 SANDSTONE(100%):** light gray red, lithic, 30% white clear to light red quartz grains, lower fine to medium grained, moderately to poorly sorted, predominantly angular to rounded, occasional quartz overgrowths, calcareous and white to light green kaolinitic cement, friable, common clear, red brown, green, gray angular siliceous fragments, occasional white to gray calcareous and lesser dolomitic fragments, assumed poor intergranular porosity, no shows.

**12.5-15 SANDSTONE CONGLOMERATE** (100%): light gray red, lithic, 30% varicolored quartz grains, very fine to coarse grained, poorly sorted, rounded to sub angular, occasional angular, occasional quartz overgrowths, calcareous and white to light green kaolinitic cement, friable, common varicolored siliceous fragments, occasional white to gray calcareous and dolomitic fragments, assumed poor intergranular porosity, no shows.

**15-19.4 SANDSTONE CONGLOMERATE (100%):** light gray red, lithic, 50% white cream and light red brown quartz grains, predominantly fine to coarse grained, poorly sorted, rounded to angular, occasional quartz overgrowths, sly increasing calcareous and kaolinitic cement, friable, common predominantly red brown green and gray siliceous fragments, occasional white to gray calcareous and dolomitic fragments, assumed tight to poor intergranular porosity, no shows.

**20-25 CONGLOMERATE(100%):** light red brown, lithic, very fine to coarse grained rounded to sub angular sandstone matrix, predominantly calcareous cement, 20% rounded to sub rounded red brown, green, gray, cream clast fragments predominantly siliceous upper to 1.5 cm in size, minor limestone clasts, assumed tight to poor intergranular porosity, no shows.

**25-30 CONGLOMERATE(100%):** light red brown, gray green, lithic, 10% very fine to coarse grained rounded to sub angular sandstone matrix, minor calcareous cement, possible siliceous sections, 90% rounded to sub rounded red brown, green, gray, cream clast fragments predominantly

siliceous predominantly > 1.0 cm in size, minor limestone clasts, assumed tight to possible fair intergranular porosity, no shows.

**30-35 CONGLOMERATE(100%):** light red brown, gray green, lithic, 50% very fine to coarse grained rounded to sub angular sandstone matrix, minor calcareous cement, friable, possible clayey and siliceous sections, 50% rounded to sub rounded quartzite, chert and varicolored siliceous fragments, minor yellow green clayey clasts?, minor cream and gray limestone clasts, possible sandstone clasts, clasts predominantly > 0.5 cm, assumed poor intergranular porosity, possible trace fractures, no shows.

**35-40 CONGLOMERATE(100%):** light red brown, gray green, lithic, 50% silty to coarse grained rounded to sub angular quartzose sandstone matrix, minor calcareous and red clay cement, friable, possible siliceous sections, 50% rounded to sub rounded white quartz, gray quartzite, chert and varicolored siliceous fragments, trace jasper, minor yellow green clayey clasts?, minor limestone, occasional cement from casing, clasts predominantly > 0.3 cm, assumed poor intergranular porosity, possible trace fractures, no shows.

**40-45 CONGLOMERATE(100%):** light red brown, gray green, lithic, 50% silty to occasional very coarse grained rounded to sub angular sandstone matrix, increasing calcareous and lesser red clay cement, possible siliceous sections, 50% rounded to sub rounded white quartz, gray quartzite, chert and varicolored siliceous fragments, minor yellow green clayey fragments, minor limestone, minor white to light gray cement from casing, clasts predominantly > 0.3 cm, assumed poor intergranular porosity, trace fractures, rare dull yellow fluorescence, rare very slow streaming yellow fluorescence cut along fracture.

**45-50 CONGLOMERATE(100%):** light red brown, gray green, lithic, 65% silty to occasional very coarse grained rounded to sub angular sandstone matrix, increasing calcareous and lesser clay cement, slightly firm, micaceous in part, possible siliceous sections, 35% rounded to sub rounded quartz, quartzite, chert and varicolored siliceous fragments, minor limestone, trace jasper, clasts predominantly > 0.3 to < 1.5 cm, assumed poor intergranular porosity, trace fractures, no shows.

**50-55 CONGLOMERATE(100%):** light red brown, gray green, lithic, 40% very fine to occasional very coarse grained rounded to sub angular sandstone matrix, silty sections, occasional calcareous and lesser white green clay cement, slightly firm, micaceous in part, 60% predominantly red brown and gray green rounded to sub rounded quartz, quartzite, chert and varicolored siliceous fragments, minor gray and cream limestone clasts, trace jasper, clasts predominantly > 0.3 to < 1.5 cm, assumed poor to fair intergranular porosity, trace fractures, no shows.

**55-60 CONGLOMERATE**(**100%**): light red brown, gray green minor yellow, lithic, 70% very fine to coarse grained rounded to sub angular sandstone matrix, minor yellow staining on matrix

seems to coincide with best porosity, silty sections, occasional calcareous and lesser white green clay cement, slightly firm, micaceous in part, 30% predominantly red brown and gray green rounded to sub rounded quartz, quartzite, chert and varicolored siliceous fragments, minor limestone clasts, trace jasper, clasts predominantly > 0.3 to < 1.5 cm, assumed poor to increasingly fair intergranular porosity, trace fractures, no fluorescence, possible trace very faint slightly blooming dull yellow fluorescence cut.

**60-65 SANDSTONE CONGLOMERATE(100%):** light red brown, lithic, predominantly very fine to medium grained, occasional coarse sandstone grained, silty in part, increasing calcareous cement, possible clay cement, 15% siliceous clasts predominantly < 0.5 cm, micaceous, predominantly tight to occasional sections with fair intergranular porosity, no fluorescence, trace slow to moderately streaming yellow fluorescence cut.

**65-70 SANDSTONE CONGLOMERATE(100%):** light red brown, lithic, predominantly rounded to sub angular very fine to occasional coarse sandstone grained, predominantly calcareous cement, 30% rounded to angular varicolored siliceous clasts, minor limestone clasts, micaceous in part, tight to trace fair intergranular porosity, trace dull yellow fluorescence, trace slow streaming yellow fluorescence cut.

**70-75 SANDSTONE CONGLOMERATE(100%):** As above, light red brown, green, 60% predominantly very fine to occasional coarse sandstone matrix, 40% red brown and green siliceous fragments, minor limestone fragments, calcareous and increasing clay cement, rare dull yellow fluorescence, rare slow streaming yellow fluorescence cut.

**75-80 CONGLOMERATE(100%):** light red brown, lithic, 15% rounded to sub angular predominantly very fine to medium grained sandstone matrix, minor calcareous and possible clay cement, well indurated, 85% rounded to angular red brown, gray green, and cream siliceous clast fragments, increasing limestone and dolomitic clasts, clasts upper to 1 cm, micaceous in matrix, assumed tight to poor intergranular porosity, trace fractures, rare yellow fluorescence, no fluorescence cut.

**80-85 CONGLOMERATE(100%):** light red brown, green, lithic, 25% rounded to sub angular very fine to medium grained sandstone matrix, calcareous and clay cement, well indurated, 75% clasts and clast fragments as above, assumed poor to trace fair intergranular porosity, trace fractures, trace dull yellow fluorescence, slow streaming yellow fluorescence cut possible along fracture.

**85-88 CONGLOMERATE(100%):** light red brown, green, lithic, 30% rounded to sub angular very fine to medium grained sandstone matrix, calcareous and clay cement, well indurated, 70% clasts and clast fragments of predominantly red and green quartzite, chert, occasional limestone

fragments, assumed poor to trace fair intergranular porosity, trace fractures, trace dull yellow fluorescence, slow streaming yellow fluorescence cut possible along fracture.

**92-95 SANDSTONE CONGLOMERATE(100%):** light red brown, lesser white and green, lithic, 80% very fine to medium grained sandstone matrix, sub angular to sub rounded, predominantly calcareous and clay cement, 20% siliceous clasts, assumed poor to possible fair intergranular porosity, trace fractures, no shows.

**95-100 CONGLOMERATE(100%):** red brown, lithic, 40% very fine to lower coarse grained sandstone matrix, calcareous and clay cement, micaceous, 60% siliceous clasts, occasional limestone clasts 0.5 to 2 cm, assumed poor to possible fair intergranular porosity, trace dull yellow fluorescence, trace moderately streaming yellow fluorescence cut.

**100-105 CONGLOMERATE(100%):** red brown, green and gray, lithic, 30% very fine to lower coarse grained sandstone matrix, calcareous and clay cement, micaceous, 70% quartzite, chert, quartz clasts, occasional limestone clasts 0.3 to 1 cm, assumed poor intergranular porosity, trace dull yellow fluorescence, trace slow streaming yellow fluorescence cut.

**105-110 CONGLOMERATE(100%):** red brown, green and gray, lithic, 40% very fine to lower coarse grained sandstone matrix, calcareous and clay cement, rounded to sub angular, argillaceous, micaceous, 60% quartzite, chert, quartz clasts, occasional limestone clasts 0.7 to 1.5 cm, assumed poor intergranular porosity, trace fair intergranular porosity, trace fractures, trace dull yellow fluorescence, trace slow streaming yellow fluorescence cut.

**110-115 CONGLOMERATE(100%):** predominantly red brown, lesser light white green sections, lithic, 80% predominantly very fine to medium grained, minor coarse grained sandstone matrix, silty in part, calcareous and clay cement, possible argillaceous, friable in part, micaceous, rounded to sub angular, 20% rounded to sub angular varicolored siliceous clasts upper to 1 cm, occasional light gray cream limestone fragments, predominantly tight to poor intergranular porosity with trace fair intergranular porosity in light green sections, trace to trace spotty yellow fluorescence, trace slow streaming yellow fluorescence cut.

**115-120 CONGLOMERATE(100%):** red brown, green and gray, lithic, 70% very fine to medium sandstone matrix, calcareous and increasing clay cement, 30% red, cream, green, and gray siliceous clasts, minor limestone clasts upper to 1.5 cm, poor intergranular porosity, trace fractures, trace dull yellow fluorescence, moderately streaming yellow fluorescence cut.

**120-125 CONGLOMERATE(100%):** red brown, green and gray, lithic, 80% very fine to medium sandstone matrix, rounded to sub angular, calcareous and clay cement, well indurated,

20% red, cream, green, and gray siliceous clasts, minor limestone clasts upper to 1.0 cm, poor to trace fair intergranular porosity, trace fractures, trace dull yellow fluorescence, moderately streaming yellow fluorescence cut.

**125-133 CONGLOMERATE(100%):** red brown, light green, occasional orange, lithic, 70% very fine to medium grained sandstone matrix, silty in part, rounded to sub angular, calcareous and clay cement, sideritic in part, friable, 30% white quartz, red brown, gray and cream siliceous clasts, minor limestone clasts upper to 1 cm, rounded to angular, poor to minor fair intergranular porosity, trace fractures, trace to trace spotty yellow fluorescence, moderately streaming yellow fluorescence cut.

#### NO CUTTING RETURNS FROM 133.0 to 198.0 meters

\* Start getting LCM back at ~ 198.0 meters

. Poor sample quality from 198.0 to 323.0 meters. Little to no returns coming over the shakers. All samples from 198.0 to 323.0 meters are taken from the shaker box / possum belly. \*

**199.0 SANDSTONE(100%):** light red brown, light gray, sub lithic, predominantly silty to very fine grained, minor lower fine grained, calcareous, friable, predominantly loose quartz grains, angular to lesser sub rounded, micaceous, occasional green argillaceous material, possible quartz overgrowths, assumed poor intergranular porosity, trace yellow fluorescence, slow streaming yellow fluorescence cut.

**205 SANDSTONE CONGLOMERATE(100%):** light red brown, sub lithic, 80% loose quartz grains, angular to sub rounded, silty to medium grained, minor coarse grained, calcareous and clay cement, minor mica, common siliceous fragments, minor shale grains, assumed poor to fair intergranular porosity, no shows.

**210 SANDSTONE(100%):** light red brown, sub lithic, 85 to 90% loose quartz grains, silty to lower medium grained, calcareous cement, friable, angular to sub rounded, kaolinitic, common red brown and gray green siliceous fragments, minor mica, rare limestone fragments, assumed poor to possible fair intergranular porosity, no shows.

**215 SANDSTONE(100%):** light red brown, sub lithic, 85% loose quartz grains, silty to lower medium grained, calcareous cement, friable, angular to sub rounded, kaolinitic, red brown and green siliceous fragments, assumed poor to possible fair intergranular porosity, no shows.

**220** SANDSTONE(100%): light red brown, sub lithic, 80% loose quartz grains, silty to lower medium grained, calcareous and possible clay cement, kaolinitic, friable, angular to common sub rounded, red brown and green siliceous fragments, occasional shale fragments, assumed poor to

possible fair intergranular porosity, no shows.

**225 SANDSTONE(100%):** light red brown, sub lithic, 75 to 80% loose quartz grains, silty to fine grained, occasional lower medium grained, calcareous and possible clay cement, kaolinitic, friable, predominantly angular to lesser sub rounded, common medium to coarse red brown and green siliceous fragments, occasional shale fragments, hemitite grains, assumed poor to possible fair intergranular porosity, no shows.

**230 SANDSTONE(100%):** light red brown, lithic, 70 to 75% loose quartz grains, silty to lower medium grained, calcareous and possible clay cement, kaolinitic, friable, angular to sub rounded, red brown and green siliceous fragments, common white gray microcrystalline thin limestone fragments, common clear and translucent quartz fragments, occasional shale fragments, assumed poor to possible fair intergranular porosity, no shows.

**235 SANDSTONE(100%):** light red brown, lithic, 70% loose quartz grains, silty to fine grained, occasional lower medium grained, calcareous and possible clay cement, kaolinitic, friable, angular to occasional sub rounded, fine to coarse red brown and green siliceous fragments, occasional white gray microcrystalline thin limestone material, common clear and translucent quartz fragments, occasional shale fragments, assumed poor to possible fair intergranular porosity, no shows.

**240 SANDSTONE(100%):** light red brown, lithic, 70% loose quartz grains, increasingly silty to lesser fine grained, minor medium grained, calcareous and clay cement, predominantly angular to minor rounded, common siliceous fragments, occasional shale, occasional limestone fragments, minor mica, assumed poor intergranular porosity, no shows.

**245 SANDSTONE(100%):** light red brown, lithic, 70% loose quartz grains, increasingly silty to lesser fine grained, minor medium grained, calcareous and clay cement, predominantly angular to minor rounded, common siliceous fragments, occasional shale, occasional limestone fragments, minor mica, assumed poor intergranular porosity, no shows.

**250 SANDSTONE(100%):** light red brown, lithic, 70% loose quartz grains, increasingly silty to lesser fine grained, minor medium grained, calcareous and clay cement, friable, predominantly angular to sub angular, 20% very fine to medium siliceous grains and fragments, occasional shale, occasional limestone fragments, trace mica, assumed poor intergranular porosity, no shows.

**255 SANDSTONE(100%):** light red brown, lithic, 50 to 60% loose quartz grains, silty to fine grained, minor medium grained, calcareous and clay cement, friable, predominantly angular to minor sub rounded, 30% red brown, green and gray siliceous grains and fragments, occasional gray and green shale, occasional white limestone, minor mica, assumed poor intergranular porosity, no

shows.

**260 SANDSTONE(100%):** light red brown, lithic, 60% loose quartz grains, silty to fine grained, minor calcareous and clay cement, friable, predominantly angular to minor sub rounded, 25% red brown and green siliceous grains and fragments, occasional shale, occasional to common thin white chalky limestone, minor mica, minor hemitite, assumed poor intergranular porosity, no shows.

**265 SANDSTONE(100%):** light red brown, lithic, 70% loose quartz grains, silty to minor medium grained, minor calcareous and clay cement, friable, predominantly angular to sub angular, 20% red brown and green very fine to minor coarse siliceous grains and fragments, occasional shale, occasional thin white chalky limestone, occasional hemitite, minor mica, assumed poor intergranular porosity, no shows.

**270 SANDSTONE(100%):** light red brown, lithic, 70% loose quartz grains, silty to occasional medium grained, minor calcareous and clay cement, friable, predominantly angular to sub angular, 25% red brown and green siliceous grains and fragments, occasional shale, occasional to common thin white chalky limestone, minor mica, minor hemitite, assumed poor intergranular porosity, no shows.

**275 SANDSTONE(100%):** light red brown, lithic, 60% loose quartz grains, silty to fine grained, minor calcareous and clay cement, friable, predominantly angular to minor sub rounded, 25% red brown and green siliceous grains and fragments, occasional shale, occasional to common thin white chalky limestone, minor mica, assumed poor intergranular porosity, no shows.

**280 SANDSTONE(100%):** light red brown, lithic, 60% loose quartz grains, very fine to minor medium grained, silty, calcareous and clay cement, friable, predominantly angular to minor sub rounded, 30% fine to coarse angular red brown and green siliceous and increasing shale grains and fragments, increasing thin white chalky limestone, minor mica, minor fine hemitite, assumed poor intergranular porosity, no shows.

**285 SANDSTONE(100%):** light red brown, lithic, 75% loose quartz grains, very fine to coarse grained, slightly silty, calcareous and clay cement, friable, predominantly angular to rounded, 20% red brown and green shale and lesser siliceous grains and fragments, occasional to common thin white chalky limestone, minor hemitite, assumed poor to possible fair intergranular porosity, trace white yellow fluorescence, trace slow streaming white yellow fluorescence cut.

**290 SANDSTONE(100%):** light red brown, lithic, 75% loose quartz grains, upper very fine to lower coarse grained, calcareous and clay cement, friable, rounded to sub angular, 20% red brown, green and gray siliceous and shale grains and fragments, occasional thin white chalky limestone,

trace coal grains, assumed poor to possible fair intergranular porosity, trace to trace spotty dull yellow fluorescence, moderately streaming yellow fluorescence cut.

**295 SANDSTONE(100%):** light red brown, lithic, 75% loose quartz grains, very fine to medium grained, increasing white and light gray calcareous and clay cement, friable, predominantly sub rounded to sub angular, 25% red brown, green and gray siliceous and increasing shale grains and fragments, occasional thin white chalky limestone, trace hemitite, assumed poor to possible fair intergranular porosity, trace dull yellow fluorescence, moderately to fast streaming white yellow fluorescence cut.

**300 SANDSTONE(100%):** light red brown, lithic, 60% loose quartz grains, very fine to medium grained, occasional to common white and light gray calcareous and clay cement, friable, predominantly sub rounded to sub angular, 35% red brown, green and gray siliceous and increasing shale grains and fragments, occasional limestone fragments, trace hemitite, assumed poor to possible fair intergranular porosity, trace dull yellow fluorescence, moderately to fast streaming white yellow fluorescence cut.

**305 SANDSTONE(100%):** light red brown, lithic, 75% loose quartz grains, silty to medium grained, angular to sub rounded, white calcareous to white, gray and light red brown clay cement, friable, 25% red brown, green, gray to dark gray lithic grains, occasional clear and translucent quartz, trace hemitite, assumed poor intergranular porosity, no shows.

**310 SANDSTONE(100%):** light red brown, lithic, 60% quartz grains, very fine to medium grained, silty, angular to lesser rounded, common white to light gray calcareous and clay cement, friable, 25% fine to very coarse red brown, gray to dark gray, and green siliceous and shale / lithic grains and fragments, occasional clear and translucent quartz, minor light gray and cream limestone, assumed poor intergranular porosity, trace to rare dull yellow fluorescence, slow streaming white yellow fluorescence cut.

**315 SANDSTONE(100%):** light red brown, lithic, 60% quartz grains, silty to medium grained, angular to sub rounded, common white to light gray calcareous and clay cement, friable, 30% fine to very coarse lithic grains and fragments as above, occasional clear and translucent quartz, minor light gray and cream limestone, assumed poor intergranular porosity, no shows.

**320 SANDSTONE(100%):** light red brown, lithic, 55 to 60% quartz grains, silty to medium grained, predominantly angular to sub rounded, common white to light gray calcareous and clay cement, friable, 30 to 35% fine to very coarse red brown, green, and dark gray lithic grains and fragments, occasional clear and translucent quartz, minor light gray and cream limestone, assumed poor intergranular porosity, no shows.

**326-330 CONGLOMERATE(100%):** red brown, lithic, 10 to 15% very fine to medium grained sandstone matrix, calcareous and clay cement, rounded to sub angular, friable, 85 to 90% red brown, gray to dark gray, green, cream, quartz, quartzite, chert / siliceous clast fragments predominantly > 3 mm to < 1 cm, occasional limestone fragments, assumed poor to possible fair intergranular porosity, possible minor fracture porosity, no shows.

**330-335 SANDSTONE / CONGLOMERATE(100%):** red brown, lithic, 50% very fine to coarse sandstone matrix, abundant red brown clay and lesser calcareous cement, predominantly rounded to sub angular, friable, 50% red brown, gray to dark gray, increasing green, cream, quartz, quartzite, chert / siliceous clast fragments predominantly > 3 mm to < 1 cm, occasional limestone fragments, assumed poor intergranular porosity, possible minor fracture porosity, no shows.

**335-340 CLAYSTONE CONGLOMERATE(100%):** red brown, lithic, 50% red brown clay getting washed away when cleaned, 10 to 15% very fine to medium rounded to sub angular sandstone matrix, 50% predominantly red brown, green, and dark gray siliceous sub rounded to sub angular clasts > 0.3 to < 1.0 cm, minor calcareous cement, minor limestone clasts, assumed poor intergranular porosity, no shows.

**340-345 SANDSTONE CONGLOMERATE (100%):** red brown, lithic, 80% light red brown to clear rounded to sub angular very fine to lower coarse sandstone matrix, abundant red brown clay and minor calcareous cement / matrix, 20% > 0.2 cm red brown, brown, gray and lesser green siliceous clasts, trace limestone clasts, assumed poor intergranular porosity, no shows.

**345-350** SANDSTONE(80%): red brown, sub lithic, 85 to 90% loose quartz grains, abundant red brown clay matrix / cement, calcareous, very fine to lower coarse grained, silty, predominant rounded to sub angular, minor angular, 5 to 10% < 0.3 cm siliceous clasts as above, assumed poor to possible fair intergranular porosity, no shows.

**SANDSTONE(20%):** gray green, lithic, silty to fine grained, calcareous and gray green clay cement, rounded to sub angular, very micaceous, tight, no shows.

**350-355** SANDSTONE CONGLOMERATE (100%): red brown, lithic, 80% light red brown to clear rounded to sub angular very fine to lower coarse sandstone matrix, very silty, abundant red brown clay and minor calcareous cement / matrix, 20% > 1.0 cm red brown, gray and minor green siliceous clasts, assumed poor intergranular porosity, no shows.

**355-360 CLAY SANDSTONE (100%):** red brown, sub lithic, 85% loose quartz grains, abundant red brown clay matrix / cement, calcareous, very fine to lower coarse grained, silty, predominant rounded to sub angular, 5 to 10% < 0.5 cm red brown, brown, gray and green siliceous clasts, trace limestone clasts, assumed poor to possible fair intergranular porosity, trace yellow fluorescence,

moderately streaming yellow fluorescence cut.

**360-365 CLAY SANDSTONE (100%):** red brown, sub lithic, 80% loose quartz grains, very abundant red brown clay matrix / cement, calcareous, predominantly very fine to medium grained, trace coarse grained, silty, predominant rounded to sub angular, 10 to 15% < 0.5 cm red brown, brown, gray and green siliceous clasts, trace limestone clasts, assumed tight to poor intergranular porosity, trace to rare yellow fluorescence, moderately streaming yellow fluorescence cut.

**365-370 CONGLOMERATE** (**100%**): red brown to gray green, lithic, 15 to 20% very fine to very coarse rounded to sub angular quartz sandstone matrix, abundant red brown clay cement / matrix, minor calcareous cement, 80% red brown, brown to gray green, lesser tan siliceous clasts < 1.0 cm, occasional LIMESTONE clasts, assumed poor intergranular porosity, possible fracture porosity, trace to rare dull yellow fluorescence, slow streaming white yellow fluorescence cut.

**370-375 CLAY SANDSTONE (100%):** red brown, sub lithic, 80% loose quartz grains, very abundant red brown clay matrix / cement, calcareous, predominantly very fine to medium grained, common silty, predominantly rounded to sub angular, occasional < 0.5 cm siliceous clasts as above, trace hemitite, trace mica, assumed tight to poor intergranular porosity, no shows.

**375-380 SANDSTONE CONGLOMERATE (100%):** red brown, lithic, 60% loose rounded to sub angular quartz sandstone matrix, very fine to medium grained, trace lower coarse grained, silty, abundant red brown clay matrix / cement, minor calcareous cement, 40% red brown, gray, gray green and peach siliceous clasts 0.2 to 1.0 cm, trace mica, minor LIMESTONE clasts, assumed poor to possible fair intergranular porosity, possible fracture porosity, trace to trace spotty yellow fluorescence, moderately streaming white yellow fluorescence cut.

**380-385** CLAY SANDSTONE (100%): red brown, sub lithic, 80% loose quartz grains, very abundant red brown clay matrix / cement, calcareous, friable, predominantly very fine to medium grained, silty, predominantly rounded to sub angular, 5 to 10% < 1.0 cm siliceous clasts as above, trace hemitite, trace mica, assumed tight to poor intergranular porosity, trace yellow fluorescence, moderately streaming white yellow fluorescence cut.

**385-390** SANDSTONE CONGLOMERATE (100%): red brown, lithic, 70% loose rounded to sub angular quartz sandstone matrix, silty to medium grained, trace coarse grained, abundant red brown clay matrix / cement, minor calcareous cement, 25% siliceous clasts 0.2 to 1.0 cm, trace mica, minor LIMESTONE clasts, assumed poor to possible fair intergranular porosity, possible fracture porosity, trace yellow fluorescence, moderately streaming white yellow fluorescence cut.

390-395 SANDSTONE CONGLOMERATE (100%): red brown, lithic, 65% loose rounded to

sub angular quartz sandstone matrix, increasingly silty to medium grained, abundant red brown clay matrix / cement, minor calcareous cement, 35% siliceous clasts 0.3 to 1.0 cm, increasing white chalky to gray LIMESTONE clasts, assumed poor to possible fair intergranular porosity, possible fracture porosity, no shows.

**395-400** SANDSTONE CONGLOMERATE (100%): red brown, lithic, 30% loose rounded to sub angular quartz sandstone matrix, very silty to fine grained, lesser medium grained, abundant red brown clay matrix / cement, minor calcareous cement, predominantly friable with tight firm sections, 65% predominantly red brown and gray green siliceous clasts 0.2 to 0.6 cm, occasional white chalky to gray LIMESTONE clasts, assumed poor to possible fair intergranular porosity, possible fracture porosity, no shows.

**400-405 CONGLOMERATE(100%):** red brown to gray green, lithic, 10% sandstone matrix as above, common red brown clay matrix, minor calcareous cement, 80% red brown, gray, gray green siliceous clasts and clast fragments, 5% cream limestone clasts, poor to possible fair intergranular porosity, no shows.

**405-410 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, 75% loose rounded to lesser sub angular silty to medium grained sandstone matrix, minor coarse grained, friable to minor tight firm sections, abundant red brown clay cement / matrix, minor calcareous cement, 25% siliceous and lesser limestone clast fragments < 1 cm, trace hemitite, poor intergranular porosity, trace dull yellow fluorescence, rare yellow fluorescence cut.

**410-415 SANDSTONE CONGLOMERATE (100%):** red brown, lithic, 80% loose rounded to sub angular quartz sandstone matrix, predominantly silty to fine grained, occasional medium grained, abundant red brown clay matrix / cement, minor calcareous cement, 20% siliceous clasts, occasional LIMESTONE clasts, assumed poor to possible fair intergranular porosity, possible fracture porosity, trace to spotty yellow fluorescence, trace slow yellow fluorescence cut.

**415-420 SANDSTONE(100%):** red brown, lithic, predominantly silty to fine grained, lesser medium to trace coarse grained, abundant red brown clay matrix / cement, minor calcareous cement, rounded to lesser sub angular, 5 to 10% siliceous clasts as above, 80 to 85% quartz, 15% chert grains, minor argillaceous grains, trace hemitite, minor limestone clasts, assumed poor to possible fair intergranular porosity, trace to spotty dull yellow fluorescence, slow streaming white yellow fluorescence cut.

**420-425 SANDSTONE CONGLOMERATE(100%):** red brown, sub lithic, 75% loose quartz grains, predominantly silty to occasional medium grained, lesser coarse grained, abundant red brown clay matrix / cement, minor calcareous cement, rounded to lesser sub angular, 15 to 20% siliceous clasts, minor argillaceous grains, trace hemitite, minor limestone clasts, assumed poor to

possible fair intergranular porosity, spotty dull yellow fluorescence, slow streaming white yellow fluorescence cut.

**425-430 SANDSTONE(100%):** red brown, sub lithic, predominantly silty to medium grained, occasional coarse grained, abundant red brown clay, minor calcareous cement, rounded to sub angular, minor quartz overgrowths, 5 to 10% lithic clasts, minor shale, minor chert grains, assumed poor to fair intergranular porosity, trace yellow fluorescence, slow streaming white yellow fluorescence cut.

**430-435 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, 70% loose quartz grains, common very fine to fine grained, increasing medium to coarse grained sandstone matrix, abundant red brown clay matrix / cement, minor calcareous cement, rounded to sub angular, 30% siliceous and lesser argillaceous clasts, trace hemitite, minor limestone clasts, assumed poor to possible fair intergranular porosity, no shows.

**435-440** SANDSTONE CONGLOMERATE(100%): As above, red brown, very silty to fine grained, occasional medium grained, abundant red brown clay matrix, calcareous cement, 20% siliceous, limestone and argillaceous clasts, poor intergranular porosity, no shows.

**440-445 SANDSTONE CONGLOMERATE(100%):** red brown, silty to increasing fine grained, occasional medium grained, abundant red brown clay, minor calcareous cement, rounded to sub angular, minor quartz overgrowths, predominantly friable with tight firm sections, 65% sandstone, 35% red brown, brown, gray, gray green siliceous clasts < 0.5 cm, minor limestone clasts, minor shale grains, trace hemitite, assumed poor intergranular porosity, no shows.

**445-455 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, 75% loose quartz grains, very silty to fine grained, occasional medium grained, abundant red brown clay, minor calcareous cement, rounded to sub angular, minor quartz overgrowths, predominantly friable with tight firm sections, 25% red brown, brown, gray, gray green siliceous clasts < 0.5 cm, minor limestone clasts, minor shale grains, trace hemitite, assumed poor to possible fair intergranular porosity, no shows.

**455-465 SANDSTONE CONGLOMERATE(100%):** red brown, 85% loose quartz grains, silty to medium grained, minor coarse grained, abundant red brown clay, minor calcareous cement, common rounded to occasional sub angular, minor shale, minor feldspar, 10 to 15% lithic clasts, trace limestone clasts, micaceous in part, assumed poor to possible fair intergranular porosity, no shows.

**465-470 SANDSTONE CONGLOMERATE**(100%): red brown, 80% loose quartz grains, silty to fine grained, occasional medium grained, abundant red brown clay, minor calcareous cement,

friable to tight calcareous and micaceous sections, rounded to occasional sub angular, minor shale, minor feldspar, 10 to 15% red brown, gray green and gray siliceous and lesser argillaceous clasts, trace limestone clasts, assumed poor intergranular porosity, no shows.

**470-475 SANDSTONE CONGLOMERATE(100%):** red brown, 80% loose quartz grains, silty to fine grained, occasional medium grained, trace coarse grained, abundant red brown clay, minor calcareous cement, friable to firm sections, rounded to occasional sub angular, minor shale, minor feldspar, 10 to 15% red brown, gray green and gray siliceous and lesser argillaceous clasts, trace limestone clasts, micaceous in part, assumed poor intergranular porosity, trace dull yellow fluorescence, rare slow streaming yellow fluorescence cut.

**475-480 SANDSTONE CONGLOMERATE(100%):** red brown, 85% loose quartz grains, silty to increasing medium grained, occasional coarse grained, common red brown clay, minor calcareous cement, friable, rounded to lesser sub angular, minor green shale, 5 to 10% siliceous clasts < 0.5 cm, micaceous in part, assumed poor intergranular porosity, no shows.

**480-485 SANDSTONE CONGLOMERATE(100%):** red brown, gray green, 50% loose very fine to medium grained, occasional coarse grained quartz sandstone matrix, silty, common red brown clay matrix, minor calcareous cement, friable, rounded to sub angular, 50% quartzite, quartz, dark chert, limestone, and argillaceous clasts 0.2 to 0.8 cm, assumed poor intergranular porosity, no shows.

**485-490 SANDSTONE CONGLOMERATE(100%):** red brown, gray green, 70% loose very fine to medium grained quartz sandstone matrix, silty, common red brown clay matrix, minor calcareous cement, friable, rounded to sub angular, 25% quartzite, quartz, dark chert, limestone, and argillaceous clasts < 0.75 cm, assumed poor intergranular porosity, no shows.

**490-500 SANDSTONE(100%):** red brown, 85 to 90% loose quartz grains, predominantly silty to fine grained, occasional medium to minor coarse grained, common red brown clay matrix, minor calcareous cement, friable, 5% gray green and red brown siliceous and argillaceous fragments, predominantly sub rounded to sub angular, minor hemitite, assumed poor to possible fair intergranular porosity, no shows.

**500-505 SANDSTONE(100%):** red brown, 85 to 90% loose quartz grains, predominantly silty to medium, minor coarse to trace very coarse grained, common red brown clay matrix, minor calcareous cement, predominantly sub rounded to sub angular, predominantly friable, minor firm sections, 10% gray green and red brown siliceous and argillaceous fragments, minor hemitite, assumed poor to possible fair intergranular porosity, no shows.

**505-510 SANDSTONE(100%):** red brown, 80 to 85% loose quartz grains, predominantly silty to medium, minor coarse grained, common red brown clay matrix, minor calcareous cement, predominantly rounded to sub angular, predominantly friable, 15% gray green and red brown siliceous and argillaceous fragments, minor hemitite, assumed poor to possible fair intergranular porosity, no shows.

**510-515 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, very fine to increasingly medium grained, occasional coarse grained, silty, common red brown clay, minor calcareous cement, rounded to sub angular, minor quartz overgrowths, 20% clasts as above, minor hemitite, poor to possible fair intergranular porosity, no shows.

**515-525 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, 70% loose quartz grains, very fine to medium grained, occasional coarse grained, silty, common red brown clay, minor calcareous cement, friable to occasional tight firm calcareous sections, rounded to sub angular, minor quartz overgrowths, 20% siliceous and argillaceous clasts, minor hemitite, poor to possible fair intergranular porosity, no shows.

**520-530 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, 80% loose quartz grains, very fine to medium grained, occasional coarse grained, silty, common red brown clay, minor calcareous cement, friable to occasional tight and firm calcareous sections, rounded to sub angular, minor quartz overgrowths, 15% siliceous and argillaceous clasts, minor hemitite, poor to possible fair intergranular porosity, no shows.

**530-535 SANDSTONE(100%):** red brown, sub lithic, very fine to medium grained, silty, predominantly rounded to sub angular, occasional angular, common red brown clay, calcareous cement, friable, 80 to 85% loose quartz grains, 5 to 10% red brown, gray and cream siliceous to limestone clasts, occasional shale grains, assumed poor to possible fair intergranular porosity, no shows.

**535-540 SANDSTONE CONGLOMERATE(100%):** red brown, sub lithic, very fine to medium grained, minor coarse grained, rounded to occasional angular, common red brown clay, calcareous cement, friable, occasional silty calcareous firm clay sections, occasional red brown and green shale, 15% clasts as above, assumed poor intergranular porosity, no shows.

**540-545 SANDSTONE CONGLOMERATE(100%):** red brown, silty to fine grained, occasional medium to trace coarse grained sub lithic sandstone matrix, common red brown clay, calcareous cement, friable to minor firm, rounded to sub angular, minor micaceous grains, occasional shale, 10 to 15% red brown, gray green siliceous clasts, occasional shale clasts < 0.4 cm, assumed poor

intergranular porosity, no shows.

**545-550 SANDSTONE CONGLOMERATE(100%):** red brown, silty to fine grained, occasional medium to trace coarse grained sub lithic sandstone matrix, common red brown clay, calcareous cement, friable to minor firm, rounded to sub angular, minor micaceous grains, occasional shale, 10 to 15% red brown, gray green siliceous clasts, occasional shale clasts < 0.4 cm, assumed poor intergranular porosity, no shows.

**550-560 SANDSTONE CONGLOMERATE(100%):** red brown, silty to occasional medium grained, trace coarse grained sub lithic sandstone matrix, common red brown clay, calcareous cement, friable to minor firm, rounded to sub angular, minor micaceous grains, occasional shale, 15 to 20% red brown, gray green siliceous clasts, occasional shale clasts < 0.4 cm, assumed poor intergranular porosity, no shows.

**560-565 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, silty to occasional medium grained, common red brown clay, calcareous cement, predominantly rounded to sub angular, 20% red brown, brown and gray siliceous ( quartzite, quartz, chert ) to argillaceous clasts < 0.5 cm, 80% quartz grains, occasional shale grains, minor hemitite, assumed poor to occasional fair intergranular porosity, no shows.

**565-570 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, silty to occasional medium grained, common red brown clay, calcareous cement, predominantly friable with minor silty firm sections, predominantly rounded to sub angular, 15 to 20% red brown, brown and gray siliceous to argillaceous clasts < 0.5 cm, minor limestone fragments, occasional shale grains, minor hemitite, assumed poor to occasional fair intergranular porosity, no shows.

**570-575 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, silty to occasional medium grained, common red brown clay, calcareous cement, predominantly friable with minor firm sections, predominantly rounded to sub angular, 20% red brown, brown and gray siliceous ( quartzite, quartz, chert ) to argillaceous clasts < 0.5 cm, minor limestone fragments, 70% quartz grains, occasional shale grains, minor hemitite, assumed poor to occasional fair intergranular porosity, no shows.

**575-580 SANDSTONE CONGLOMERATE(100%):** red brown, lithic, very fine to increasing medium grained, minor coarse grained, common red brown clay, calcareous cement, friable, angular to sub rounded, 35% red brown, brown and gray siliceous to argillaceous clasts < 0.75 cm, increasing limestone fragments, occasional shale grains, minor hemitite, assumed poor to occasional fair intergranular porosity, no shows.

**580-585 SANDSTONE(100%):** red brown, lithic, silty to occasional medium grained, common red brown clay, calcareous cement, predominantly friable with minor firm sections, predominantly rounded to sub angular, 30% firm red brown clay to micaceous clay / shale, 10 to 15% red brown, brown and gray siliceous clasts < 0.5 cm, minor limestone fragments, 60% quartz grains, occasional shale grains, minor hemitite, assumed poor to occasional fair intergranular porosity, no shows.

**585-590 CONGLOMERATE(100%):** light red brown, gray green, 70% loose quartz grains, silty to medium grained, occasional coarse grained, occasional red brown clay, minor calcareous cement, friable, predominantly sub rounded to sub angular, minor shale, possible feldspar, 30% varicolored siliceous clasts, argillaceous clasts, and occasional limestone clasts, assumed poor to possible fair intergranular porosity, no shows.

**590-600 CONGLOMERATE(100%):** light red brown, gray green, 50% loose quartz grains, silty to medium grained, occasional coarse grained, occasional red brown clay, minor calcareous cement, friable, predominantly sub rounded to sub angular, minor shale, possible feldspar, 50% varicolored siliceous clasts, argillaceous clasts, and increasing limestone clasts, assumed poor to possible fair intergranular porosity, no shows.

**600-605 CONGLOMERATE(100%):** light red brown, gray green, 40% loose quartz grains, silty to medium grained, occasional coarse grained, occasional red brown clay, minor calcareous cement, friable, predominantly sub rounded to sub angular, minor shale, possible feldspar, 60% varicolored siliceous clasts, argillaceous clasts, and increasing limestone clasts, assumed poor to possible fair intergranular porosity, no shows.

**605-610 CONGLOMERATE(100%):** light red brown, gray green, 40% loose quartz grains, very fine to medium grained, silty, occasional red brown clay, minor calcareous cement, friable, rounded to lesser angular, minor shale, possible feldspar, 55% varicolored siliceous clasts, argillaceous clasts, and common limestone clasts, assumed poor to possible fair intergranular porosity, no shows.

**610-615 SANDSTONE CONGLOMERATE**(100%): light red brown, lithic, 75% loose quartz grains, predominantly very silty to fine grained, minor medium grained, occasional red brown clay, minor calcareous cement, rounded to occasional angular, occasional gray to green shale, minor feldspar, minor hemitite, friable, 20% siliceous, argillaceous and common limestone clasts, assumed poor intergranular porosity, no shows.

**615-620 SANDSTONE CONGLOMERATE**(100%): light red brown to lesser green gray, lithic, 70% loose quartz, silty to medium grained, minor coarse grained, occasional red brown clay, minor calcareous cement, friable, occasional shale, minor feldspar, minor hemitite, 25 to 30% cream

limestone, varicolored siliceous and lesser argillaceous clasts, assumed poor to possible fair intergranular porosity, no shows.

**620-630 SANDSTONE CONGLOMERATE(100%):** light red brown to green gray, lithic, 55% loose quartz grains, very fine to minor coarse grained, silty, minor calcareous cement, rounded to sub angular, minor argillaceous and clay rich sections, 40% varicolored quartz, quartzite, limestone, and shale clasts 0.2 to 1.0 cm, assumed poor to possible fair intergranular porosity, no shows.

**630-635 SANDSTONE CONGLOMERATE(100%):** light red brown, 75% sand, 25% clasts 0.2 to 0.5 cm, predominantly silty to fine grained, occasional medium grained, rounded to lesser angular, minor red brown clay, minor calcareous cement, predominantly red brown to gray green siliceous to lesser argillaceous clasts, minor limestone clasts, assumed poor intergranular porosity, no shows.

**635-640 SANDSTONE CONGLOMERATE(100%):** light red brown, gray green, 60% very fine to occasional coarse grained sandstone, occasional clay, minor calcareous cement, sub rounded to occasional angular, occasional shale, 40% red brown and gray green quartzite to siliceous clasts, quartz clasts, occasional limestone clasts, assumed poor to possible fair intergranular porosity, no shows.

**640-645 SANDSTONE CONGLOMERATE(100%):** light red brown, gray green, 70% very fine to fine grained, common medium grained sandstone, occasional clay, minor calcareous cement, rounded to occasional angular, occasional shale, 30% red brown and gray green quartzite to siliceous clasts, quartz clasts, occasional limestone clasts, assumed poor to possible fair intergranular porosity, no shows.

**645-650 SANDSTONE CONGLOMERATE**(100%): light red brown, gray green, 65% very fine to medium grained, minor coarse grained, occasional clay, minor calcareous cement, sub rounded to angular, occasional shale, 35% red brown and gray green quartzite to siliceous clasts, quartz clasts, occasional limestone clasts, assumed poor to possible fair intergranular porosity, no shows.

**650-655 SANDSTONE(100%):** red brown, lithic, predominantly silty to fine grained, minor medium grained, sub rounded to lesser angular, common red brown clay, minor calcareous cement, predominantly friable, occasional moderately indurated, occasional argillaceous grains, minor micaceous, occasional clasts as above, assumed poor to possible fair intergranular porosity, no shows.

**655-660 SANDSTONE(100%):** red brown, lithic, predominantly silty to fine grained, minor medium grained, grading to very argillaceous siltstone in part, sub rounded to lesser angular, common red brown clay, minor calcareous cement, friable to occasional moderately indurated, occasional argillaceous grains, minor micaceous, occasional clasts, assumed poor intergranular porosity, no shows.

**660-670 SANDSTONE(100%):** red brown, lithic, predominantly silty to fine grained, occasional medium to minor coarse grained, sub rounded to lesser angular, minor quartz overgrowths, common red brown clay, minor calcareous cement, predominantly friable, 25% dark gray to red brown siliceous clasts < 0.75 cm, occasional limestone clasts, possible CONGLOMERATE, occasional argillaceous grains, minor micaceous, assumed poor to possible fair intergranular porosity, no shows.

**670-680 SANDSTONE CONGLOMERATE(100%):** red brown, sub lithic, 80% loose quartz grains, predominantly silty to occasional coarse grained, sub rounded to sub angular, occasional red brown clay, minor calcareous cement, occasional red brown and green gray shale, 20% red brown and gray green siliceous and argillaceous clasts, trace limestone clasts, minor hemitite, minor micro, assumed poor to possible fair intergranular porosity, no shows.

**680-685 SANDSTONE(100%):** red brown, lithic, predominantly silty to fine grained, occasional medium grained, abundant red brown clay, friable to common red brown clay rich calcareous silty well indurated sections, occasional calcareous cement, predominantly rounded to sub angular, micaceous in part, minor hemitite, assumed tight to poor intergranular porosity, trace dull yellow fluorescence, slow streaming white yellow fluorescence cut.

**685-690 SANDSTONE CONGLOMERATE**(**100%**): red brown, lithic, 80% loose quartz grains, predominantly silty to occasional coarse grained, rounded to sub angular, occasional red brown clay, minor calcareous cement, occasional red brown and green gray shale, 20% red brown and gray green quartzite and chert clasts, trace limestone clasts, minor hemitite, minor micro, assumed poor to possible fair intergranular porosity, no shows.

**690-695 SANDSTONE** (**100%**): red brown, lithic, silty to occasional medium grained, rounded to occasional angular, minor calcareous cement, common red brown clay matrix, common red brown and gray green shale grains, 5 to 10% siliceous and lithic clasts < 0.4 cm, trace hemitite, assumed poor to possible fair intergranular porosity, trace white yellow fluorescence, slow to moderately streaming white yellow fluorescence cut.

**695-700 SANDSTONE CONGLOMERATE(100%):** light red brown, lithic, fine to minor very coarse grained, common red brown clay matrix, occasional calcareous cement, common red brown and green shale, 35% peach to gray green siliceous clasts, possible minor feldspar, trace hemitite,

trace micaceous material, assumed poor to possible fair intergranular porosity, trace fracture porosity, no shows.

**700-705 SANDSTONE CONGLOMERATE(100%):** light red brown, lithic, increasingly silty to fine grained, minor medium grained, common red brown clay matrix, occasional calcareous cement, common red brown and green shale, 10% siliceous and argillaceous clasts, possible minor feldspar, trace hemitite, trace micaceous material, assumed poor to possible fair intergranular porosity, rare yellow fluorescence, show as above.

**705-710 SANDSTONE CONGLOMERATE(100%):** light red brown, lithic, very silty to fine grained, minor medium grained, common red brown clay matrix, occasional calcareous cement, common red brown and green shale, 15% siliceous and argillaceous clasts, possible minor feldspar, trace hemitite, trace micaceous material, assumed poor to possible fair intergranular porosity, trace fracture porosity, no shows.

**710-720 SANDSTONE CONGLOMERATE (100%):** light red brown, lithic, very fine to medium grained, occasional coarse grained, silty, sub rounded to occasional angular, occasional rounded, occasional red brown clay, calcareous cement, occasional shale grains, possible minor feldspar, 30% varicolored quartz, quartzite and siliceous clasts, argillaceous clasts, occasional limestone clasts, assumed poor to increasingly fair intergranular porosity, no shows.

**720-725 SANDSTONE CONGLOMERATE (100%):** light red brown, lithic, silty to medium grained, occasional coarse grained, rounded to occasional angular, occasional red brown to gray brown clay, calcareous cement, occasional shale grains, possible minor feldspar, 35% varicolored quartz, quartzite and siliceous clasts, argillaceous clasts, increasing limestone clasts, assumed poor to possible fair intergranular porosity, trace white yellow fluorescence, moderately streaming white yellow fluorescence cut.

**725-730 CONGLOMERATE (100%):** light red brown, lithic, silty to medium grained, occasional coarse grained, rounded to occasional angular, occasional red brown to gray brown clay, calcareous cement, occasional shale grains, possible minor feldspar, 50% varicolored quartz, quartzite and siliceous clasts, argillaceous clasts, occasional limestone clasts, assumed poor to possible fair intergranular porosity, trace fracture porosity, no shows.

**730-735 SANDSTONE CONGLOMERATE(100%):** light gray cream, lithic, predominantly very silty to fine grained, occasional medium to minor coarse grained, common gray brown clay, rounded to sub angular, occasional angular, calcareous cement, common dark gray to green shale, possible minor feldspar, 15% clasts as above, assumed poor intergranular porosity, trace to trace spotty white yellow fluorescence, trace moderately streaming white yellow fluorescence cut.

**735-740 CONGLOMERATE(100%):** gray green, red brown, 30% rounded to sub angular very fine to very coarse grained sandstone matrix, occasional gray brown clay, calcareous cement, occasional green and gray shale, minor feldspar, 70% red brown, dark gray, gray, gray green and brown siliceous clasts 0.2 to 0.5 cm, assumed poor to possible fair intergranular porosity, no shows.

**740-745 CONGLOMERATE(100%):** gray green to light red brown, lithic, 50% rounded to sub angular, very fine to coarse grained, silty loose quartz sandstone matrix, possible common gray brown clay, calcareous cement, occasional shale, occasional feldspar, trace hemitite, 50% dark gray, gray, and red brown siliceous clasts, occasional limestone clasts, occasional green clay fragments, assumed poor to possible fair intergranular porosity, possible fracture porosity, trace dull yellow fluorescence, moderately streaming white yellow fluorescence cut.

**745-750 CONGLOMERATE(100%):** gray green to light red brown, lithic, 30% rounded to sub angular, very fine to coarse grained sandstone matrix, possible common gray brown clay, calcareous cement, friable, occasional shale, occasional feldspar, trace hemitite, 70% clasts as above predominantly < 0.3 cm, occasional limestone clasts, 5 to 10% green clay fragments, assumed poor to possible fair intergranular porosity, possible fracture porosity, trace dull yellow fluorescence, moderately streaming white yellow fluorescence cut.

**750-760 CONGLOMERATE(100%):** gray green to light red brown, lithic, 65% rounded to sub angular, very fine to coarse grained sandstone matrix, possible common gray brown clay, calcareous cement, friable, occasional shale, occasional feldspar, 35% siliceous clasts predominantly < 0.5 cm, occasional limestone clasts, 10 to 15% green clay, assumed poor to possible fair intergranular porosity, possible fracture porosity, no shows.

**755-765 CONGLOMERATE(100%):** gray green to light red brown, lithic, 25% rounded to sub angular, very fine to coarse grained sandstone matrix, occasional silt, possible gray brown clay, calcareous cement, friable to minor tight siliceous sections, occasional shale, 75% quartzite and siliceous clasts predominantly < 0.5 cm, increasing limestone clasts, 15% green clay / shale, assumed poor to fair intergranular porosity, possible fracture porosity, no shows.

**765-775 CONGLOMERATE(100%):** gray green to light red brown, lithic, 50% rounded to sub angular, predominantly silty to medium grained, occasional coarse grained sandstone matrix, common gray brown clay, calcareous cement, friable, occasional shale, 50% varicolored quartzite and siliceous clasts predominantly < 0.5 cm, occasional limestone clasts, 15% green claystone, assumed poor to fair intergranular porosity, possible fracture porosity, no shows.

**775-780 CONGLOMERATE**(100%): gray green to light red brown, lithic, 60% rounded to sub angular, predominantly silty to medium grained, occasional coarse grained sandstone matrix,

common gray brown clay, calcareous cement, friable, occasional shale, 40% varicolored quartzite and siliceous clasts predominantly < 0.5 cm, occasional limestone clasts, 15% green claystone, assumed poor to fair intergranular porosity, possible fracture porosity, no shows.

**780-785 CONGLOMERATE(100%):** gray green to light red brown, lithic, 70% loose rounded to sub angular, predominantly very fine to common medium and lesser coarse grained sandstone matrix, silty, common gray brown clay, calcareous cement, friable, occasional shale, 30% varicolored siliceous to shale clasts predominantly < 0.4 cm, minor limestone clasts, 15% green and red brown claystone, trace hemitite, assumed poor to fair intergranular porosity, possible fracture porosity, no shows.

**785-790 SANDSTONE(100%):** gray green to red brown, lithic, predominantly silty to medium grained, calcareous cement, rounded to occasional angular, friable to occasional tight firm calcareous sections, 15% red brown to lesser green shale fragments, common red brown and green shale grains?, micaceous in part, predominantly poor to possible fair intergranular porosity, no shows.

**790-795 SANDSTONE(100%):** light gray green, lithic, clear to white silty to fine quartz grains, common gray clay, calcareous cement, friable to occasional tight firm sections, rounded to occasional angular, 35% red brown and green silty shale, occasional micaceous, tight to possible fair intergranular porosity, no shows.

**795-805 SANDSTONE(65%):** light gray green, lithic, clear to white silty to fine quartz grains, common gray clay, calcareous cement, grading to siltstone in part, friable to occasional tight firm sections, rounded to occasional angular, occasional micaceous, tight to possible fair intergranular porosity, no shows.

**SHALE(35%):** red brown to green, blocky, silty in part, firm, micromicaceous to occasional micaceous, wkly calcareous, clayey.

**805-810** SANDSTONE(40%): As above, light gray green, lithic, silty to fine quartz grains, common gray clay, increasing calcareous cement, grading to siltstone in part, rounded to occasional angular, occasional micaceous, tight to possible fair intergranular porosity, no shows. SHALE(60%): red brown to green, blocky, silty in part, firm, micromicaceous to occasional micaceous, wkly calcareous, clayey.

**810-815 SANDSTONE(100%):** light gray green, lithic, clear to white silty to slightly increasing medium quartz grains, grading to siltstone in part, common gray clay matrix?, calcareous cement, friable to occasional tight firm sections, rounded to occasional angular, 30% red brown and green silty shale, occasional micaceous, tight to possible fair intergranular porosity, no shows.

**820-830 SANDSTONE(100%):** light gray, sub lithic to lithic, very fine to medium grained, common silt, common gray clay matrix, calcareous cement, rounded to occasional angular, occasional to common gray to gray green shale, minor micaceous material, minor feldspar, assumed poor to possible fair intergranular porosity, no shows.

**825-830** SANDSTONE(100%): light gray, sub lithic to lithic, predominantly clear to white very fine to medium grained, occasional coarse quartz grains, silty, common gray clay matrix, calcareous, rounded to angular, common green to dark green clay / shale, occasional feldspar, minor carbonaceous shale, minor siliceous clasts, assumed poor to possible fair intergranular porosity, trace yellow fluorescence, no fluorescence cut.

**830-835 SANDSTONE(100%):** light gray green, lithic, predominantly clear to white very fine to fine grained, occasional medium quartz grains, silty, common gray clay matrix, calcareous, rounded to angular, common green to dark green clay / shale, occasional feldspar, minor carbonaceous shale, 10% siliceous to argillaceous clasts, trace jasper clasts, trace limestone clasts, assumed poor to possible fair intergranular porosity, trace yellow fluorescence, moderately streaming yellow fluorescence cut.

**835-845 SANDSTONE(80%):** light gray, sub lithic, predominantly silty to very fine grained, occasional fine grained, 35% grading to calcareous argillaceous siltstone, angular to sub rounded, occasional calcareous cement, friable to increasingly firm, common gray clay, micaceous, occasional to common shale grains, tight to poor intergranular porosity, no shows. **SHALE(20%):** gray, massive, firm, calcareous to slightly dolomitic, possibly very argillaceous limestone, micaceous in part, blocky, silty in part.

**845-855 SANDSTONE(75%):** light gray, sub lithic, predominantly silty to fine grained, 40% grading to argillaceous calcareous siltstone, common light gray clay, angular to sub rounded, occasional calcareous cement, friable to occasional firm calcareous sections, micaceous, occasional to common shale grains, tight to poor intergranular porosity, no shows.

**SHALE(25%):** gray, massive, firm, calcareous to slightly dolomitic, possibly very argillaceous limestone, micaceous in part, blocky, silty in part.

**855-860** SANDSTONE(60%): light gray to gray, sub lithic, predominantly silty to fine grained, grading to argillaceous calcareous siltstone, common light gray clay matrix?, angular to sub rounded, calcareous cement, friable to occasional firm calcareous sections, micaceous, occasional shale grains, tight to poor intergranular porosity, no shows.

**SHALE / LIMESTONE(40%):** gray, massive, microcrystalline, firm, calcareous to slightly dolomitic, possibly very argillaceous limestone, micaceous in part, blocky, silty in part.

**860-865 SANDSTONE(85%):** light gray, sub lithic, predominantly silty to very fine grained, minor fine grained, grading to argillaceous calcareous siltstone, common light gray clay, angular to sub rounded, occasional calcareous cement, friable to increasingly firm calcareous sections, micaceous, occasional to common shale grains, tight to possible fair intergranular porosity, no shows.

**SHALE/ LIMESTONE(15%):** gray, massive, firm, calcareous to slightly dolomitic, possibly a very argillaceous limestone, micaceous in part, blocky, microcrystalline, silty in part.

**865-870 SANDSTONE(100%):** light gray, sub lithic, predominantly silty to medium grained, occasional coarse grained, rare very coarse grained, common light gray clay matrix, rounded to sub angular, occasional angular, occasional limestone / shale as above, calcareous cement, friable, micaceous, occasional to common shale grains, tight to poor intergranular porosity, trace to spotty yellow fluorescence, trace slow streaming white yellow fluorescence cut.

**870-875 SANDSTONE(80%):** light gray, sub lithic, predominantly silty to occasional medium grained, grading to argillaceous calcareous siltstone in part, common light gray clay, angular to occasional rounded, calcareous cement, friable to occasional firm calcareous sections, minor micaceous grains, common shale grains, tight to possible fair intergranular porosity, trace to rare dull yellow fluorescence, slow streaming white yellow fluorescence cut.

**SHALE(20%):** gray, massive, firm, calcareous to slightly dolomitic, possible argillaceous limestone, micaceous in part, blocky.

**875-880 SANDSTONE(90%):** As above, 40% siltstone, common light gray clay, angular to occasional rounded, calcareous cement, firm calcareous sections, micaceous grains, common shale grains, tight to poor intergranular porosity, no shows.

**SHALE(10%):** gray, massive, firm, calcareous to slightly dolomitic, possible argillaceous limestone, micaceous in part, blocky.

**880-890** SANDSTONE(90%): light gray, sub lithic to possible quartzose, predominantly clear to white silty to fine grained, occasional medium grained, trace coarse quartz grains, common light gray calcareous clay, angular to occasional rounded, calcareous cement, friable to occasional firm calcareous sections, very micaceous in part, minor shale grains, trace PYRITE, tight to possible fair intergranular porosity, spotty dull yellow fluorescence, no fluorescence cut. SHALE(10%): gray, massive, firm, calcareous to slightly dolomitic, possible argillaceous limestone, micaceous in part, blocky.

**890-895 SANDSTONE(100%):** white to light gray, sub lithic to quartzose, very silty to common fine grained, occasional medium grained, possible light gray clay, increasing rounded to sub angular, clear to white clean quartz grains, very friable, minor shale, trace PYRITE, poor to increasing fair intergranular porosity, trace to trace spotty yellow fluorescence, moderately

streaming white yellow fluorescence cut.

**895-900 SANDSTONE(70%):** light gray, sub lithic, very fine to lower medium grained, decreasingly silty, possible common gray calcareous clay matrix, calcareous cement, friable with occasional tight firm sections, rounded to angular, micaceous in part, trace PYRITE, minor shale grains, assumed poor to fair intergranular porosity, trace spotty yellow fluorescence, no fluorescence cut.

**SHALE(30%):** gray, clayey, micromicaceous, microcrystalline in part, firm, blocky, wkly calcareous in part, massive.

**900-905 SANDSTONE(80%):** light white gray, sub lithic, predominantly white to clear loose quartz grains, possible common gray calcareous clay matrix, silty to medium grained, calcareous cement, friable, rounded to sub angular, occasional angular, trace PYRITE, minor shale grains, minor pink and orange translucent quartz grains, clean looking, assumed poor to fair intergranular porosity, trace spotty yellow fluorescence, no fluorescence cut.

SHALE(20%): gray, microcrystalline, firm, blocky, wkly calcareous in part, massive.

**905-910 SANDSTONE(70%):** As above, silty to occasional medium grained, calcareous cement, friable, rounded to sub angular, trace PYRITE, minor argillaceous grains, predominantly poor to possible fair intergranular porosity, trace yellow fluorescence, trace slow streaming white yellow fluorescence cut.

SHALE(30%): gray, microcrystalline, firm, blocky, wkly calcareous in part, massive, silty in part.

**910-915 SANDSTONE(80%):** light gray, sub lithic, predominantly abundant silty to fine grained, minor medium grained, common gray calcareous clay, calcareous cement, rounded to sub angular, friable, trace pyrite, occasional argillaceous grains, micaceous in part, grading to argillaceous siltstone in part, predominantly poor to possible fair intergranular porosity, trace dull yellow fluorescence, trace slow streaming white yellow fluorescence cut.

**SHALE(20%):** gray to dark gray, firm, blocky, silty in part, calcareous in part, massive, microcrystalline looking in part.

**915-920 SANDSTONE(80%):** light white gray, sub lithic, predominantly white to clear loose quartz grains, possible common gray calcareous clay matrix, silty to medium grained, calcareous cement, friable, rounded to sub angular, occasional angular, trace PYRITE, minor shale grains, minor pink and orange translucent quartz grains, clean looking, assumed poor to fair intergranular porosity, trace spotty yellow fluorescence, no fluorescence cut.

SHALE(20%): gray, microcrystalline, firm, blocky, wkly calcareous in part, massive.

**920-925 SANDSTONE(100%):** As above, increasing firm well indurated sandstone approx. 50% cemented, tight to poor intergranular porosity, occasional shale as above, trace fluorescence, trace

white yellow fluorescence cut.

**925-930 SANDSTONE(100%):** light white gray, sub lithic, very fine to fine grained, occasional lower medium grained, trace coarse grained, abundant silt, possible calcareous clay matrix, calcareous cement, friable, predominantly loose quartz grains, predominantly rounded to sub angular, occasional gray to dark gray shale, micaceous in part, trace PYRITE, assumed poor to possible fair intergranular porosity, trace to trace spotty yellow fluorescence, no fluorescence cut.

**930-935.2 SANDSTONE / SILTSTONE(100%):** light gray green, silty to occasional fine grained, commonly grading to siltstone, micaceous, common calcareous cement, rounded to angular, well indurated, firm, argillaceous, tight, no shows.

### Total Depth 935.2 meters reached on December 11<sup>th</sup>, 2005 @ 1445 hrs.



## **APPENDIX G: STRATIGRAPHIC COLUMN**

### LITHOLOGY STRIP LOG WellSight Systems

Scale 1:240 (5"=100') Metric							
Location: Licence Number:	22/11/2005 @1100hrs Drilling Completed: 11/12/2005 @1445hrs Northing: Easting: Northing: Easting: K.B. Elevation (m): 4.0 To: 935.2 Total Depth (m): 935.2 Undefined						
	OPERATOR Vulcan Minerals Inc. 333 Duckworth Street St. John's, N.L. Canada, A1C 1G9						
	GEOLOGIST						
Company:	Corey Fitzgerald P.O. Box 244 12 Guy Street, Jerseyside Newfoundland.						
	Cores						
	DSTs						
	Comments						

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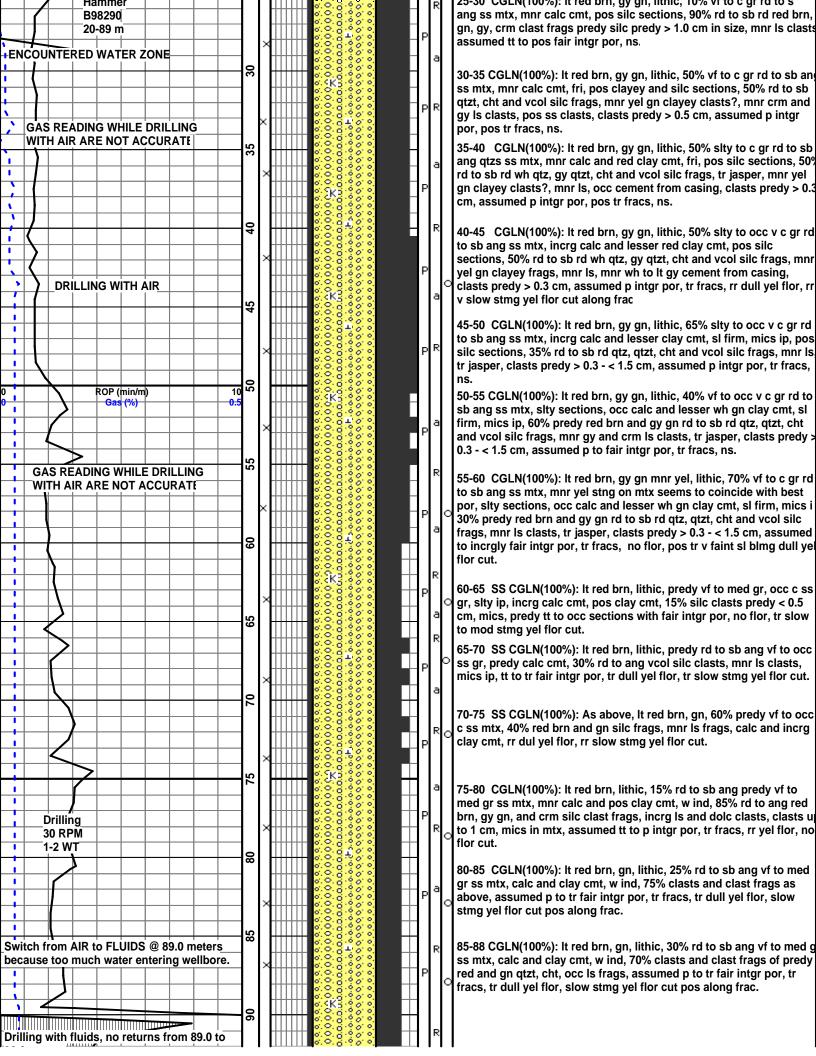
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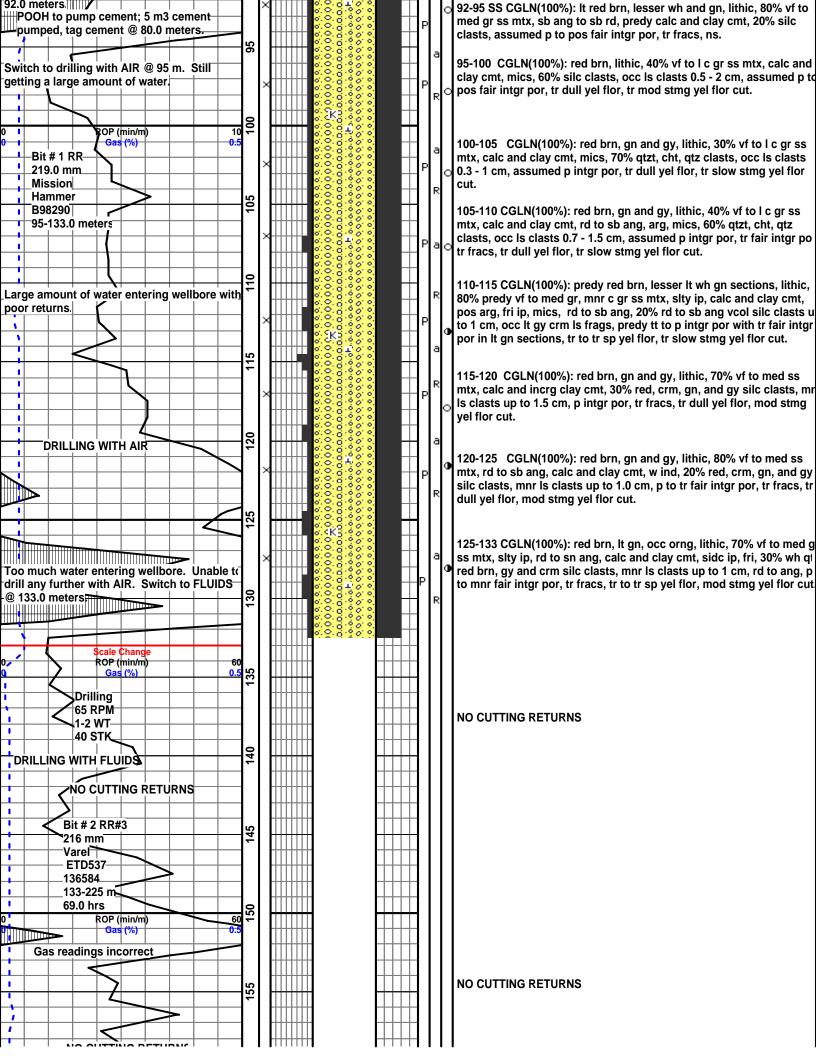
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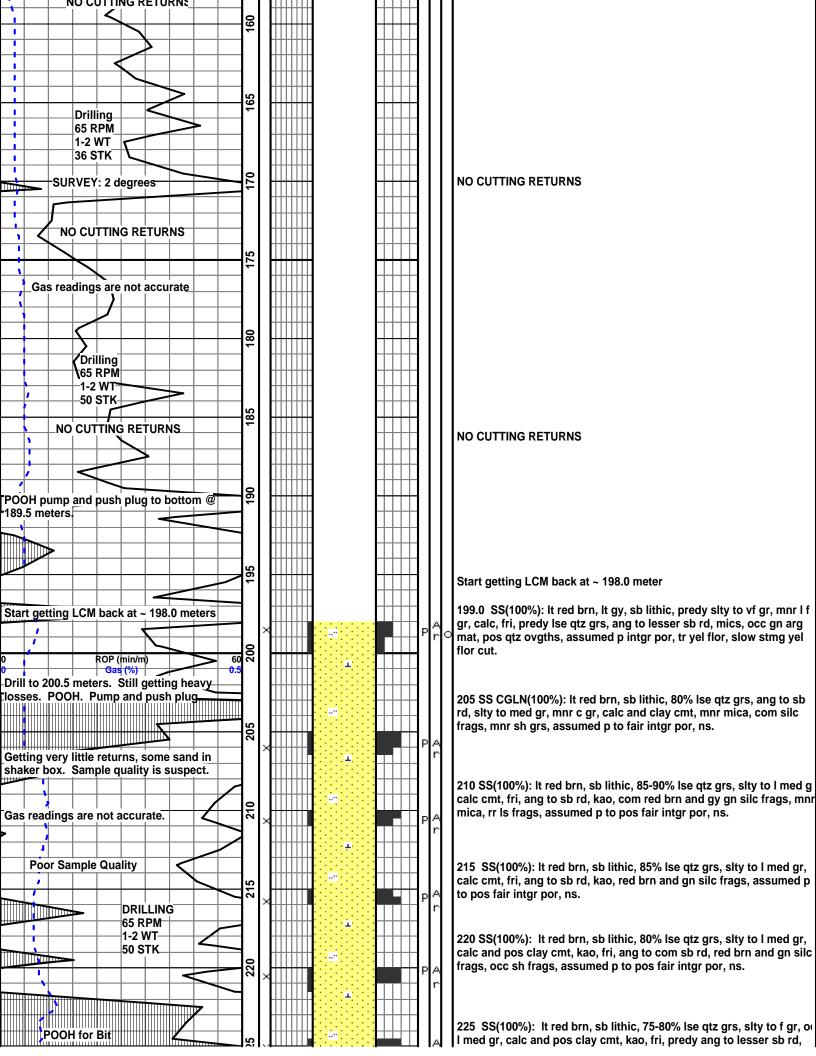
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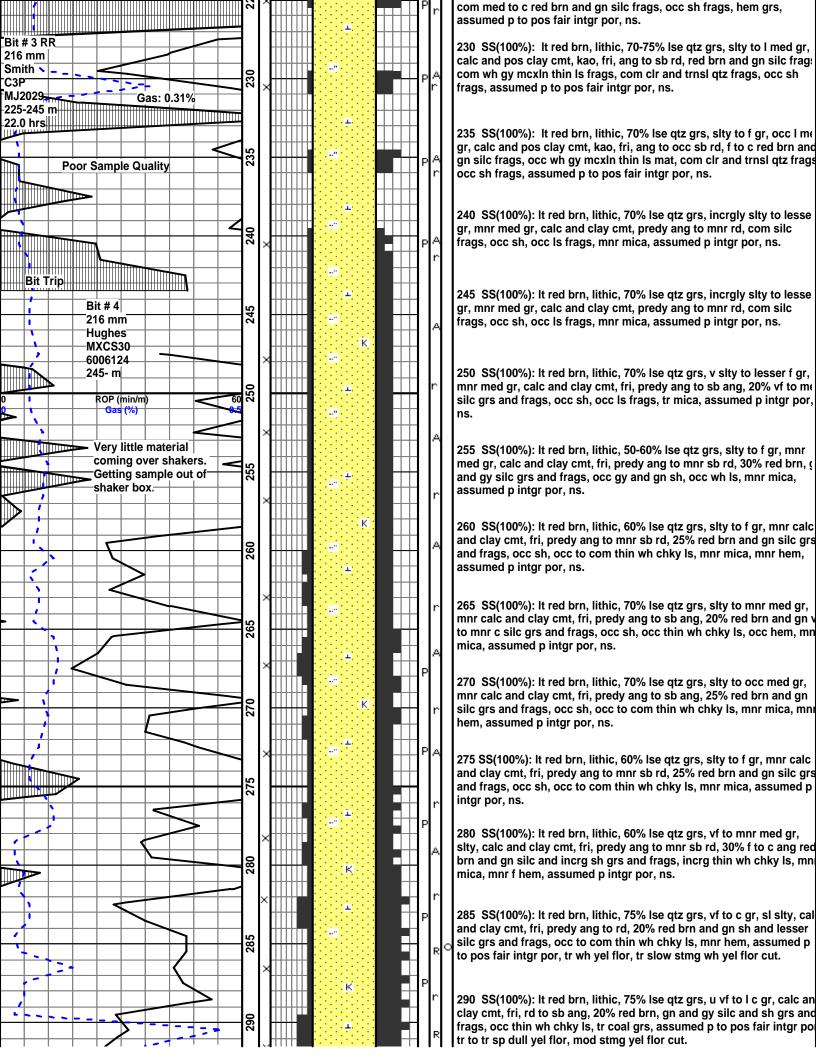
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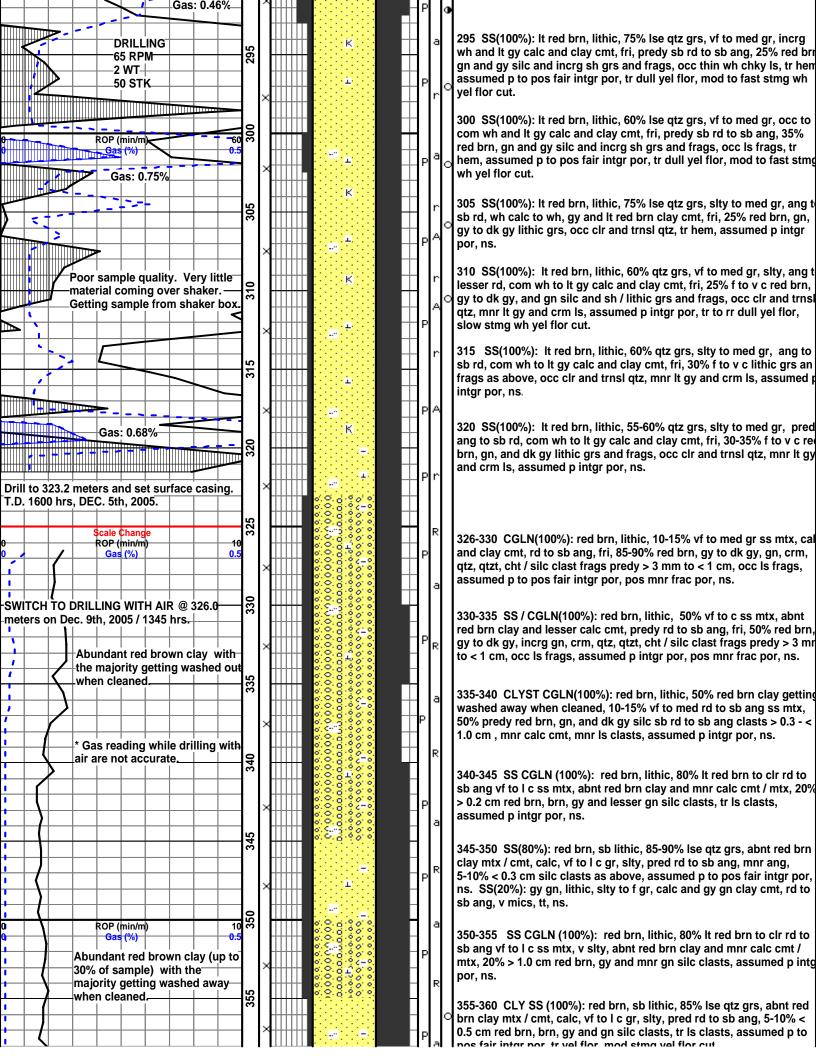
		ACCESSORIES	
MINERAL Anhy Arggrn Arg Bent Bit Bit Calc Calc Carb Carb Chtdk Chtlt Dol Ferrpel Ferrpel Ferr Glau	N       Gyp         ■       Hvymin         Kaol       Marl         ■       Minxl         ■       Nodule         ●       Phos         P       Pyr         ■       Salt         □       Salt         □       Sulphur         S       Sulphur         □       Tuff	■       Algae         ■       Amph         ■       Belm         □       Bioclst         □       Brach         □       Brach         □       Brach         □       Cephal         □       Coral         □       Crin         □       Echin         □       Fish         ③       Foram         □       Gastro	Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substrig of the second state       Sitstrig of the second state         Image: Substription state       Sitstription state <tr< td=""></tr<>
POROSITY E Earthy □ Fenest F Fracture ⊠ Inter Ø Moldic □ Organic P Pinpoint	<ul> <li>✓ Vuggy</li> <li>SORTING</li> <li>⋈ Well</li> <li>Moderate</li> <li>Poor</li> </ul>	<ul> <li>Rounded</li> <li>☐ Subrnd</li> <li>☐ Subang</li> <li>△ Angular</li> </ul>	<ul> <li>Spotted EVENT</li> <li>Ques</li> <li>Rft</li> <li>Dead</li> <li>Sidewall</li> <li>INTERVAL</li> <li>Core</li> <li>Dst</li> </ul>
Curve Track 1 ROP (min/m) Gas (%)	Depth Porosity Type 18% Porosity	Lithology Grain Size Build Build Build Build Build Sounding Glasson	Geological Descriptions
ROP (min/m)         Gas (%)         Spudded on Nov. 22/2005 @ 110         Bit # 1         Bit # 1         311 mm         Hughes         EP5070         4-19.4 meters         12.5 hrs         SURVEY: 19.4 m / 0.25 degree:         CASING: 244 mm / 35.6 kg/m set         Drilling with AIR         Bit # 1         216 mm		P P Calca P P R Calca P R Calca Calca P R Calca Cal	ogist: Corey Fitzgerald Manager: Tom Targett heer: Karla Smith SS(100%): It gy red, lithic, 50% clr to lt red qtz grs, u vf to men od to ply srt, predy ang to sb rd, occ qtz ovgth, calc and wh to ao cmt, fri, com vcol silc frags, com clr and trnsl silc frags, occ o gy calc and mnr dolc frags, assumed p intgr por, ns. 2.5 SS(100%): It gy red, lithic, 30% wh clr to lt red qtz grs, I f to gr, mod to ply srt, predy ang to rd, occ qtz ovgth, calc and wh kao cmt, fri, com clr, red brn, gn, gy ang silc frags, occ wh to and lesser dolc frags, assumed p intgr por, ns. 15 SS CGLN (100%): It gy red, lithic, 30% vcol qtz grs, vf to c rt, rd to sb ang, occ ang, occ qtz ovgth, calc and wh to lt gn ka fri, com vcol silc frags, occ wh to gy calc and dolc frags, med p intgr por, ns. 0.4 SS CGLN (100%): It gy red, lithic, 50% wh crm and It red br rs, predy f to c gr, ply srt, rd to ang, occ qtz ovgth, sly incrg ca (ao cmt, fri, com predy red brn gn and gy silc frags, occ wh to and dolc frags, assumed tt to p intgr por, ns. 6 CGLN(100%): It red brn, lithic, vf to c gr rd to sb ang ss mtx, y calc cmt, 20% rd to sb rd red brn, gn, gy, crm clast frags pre up to 1.5 cm in size, mnr ls clasts, assumed tt to p intgr por, ns

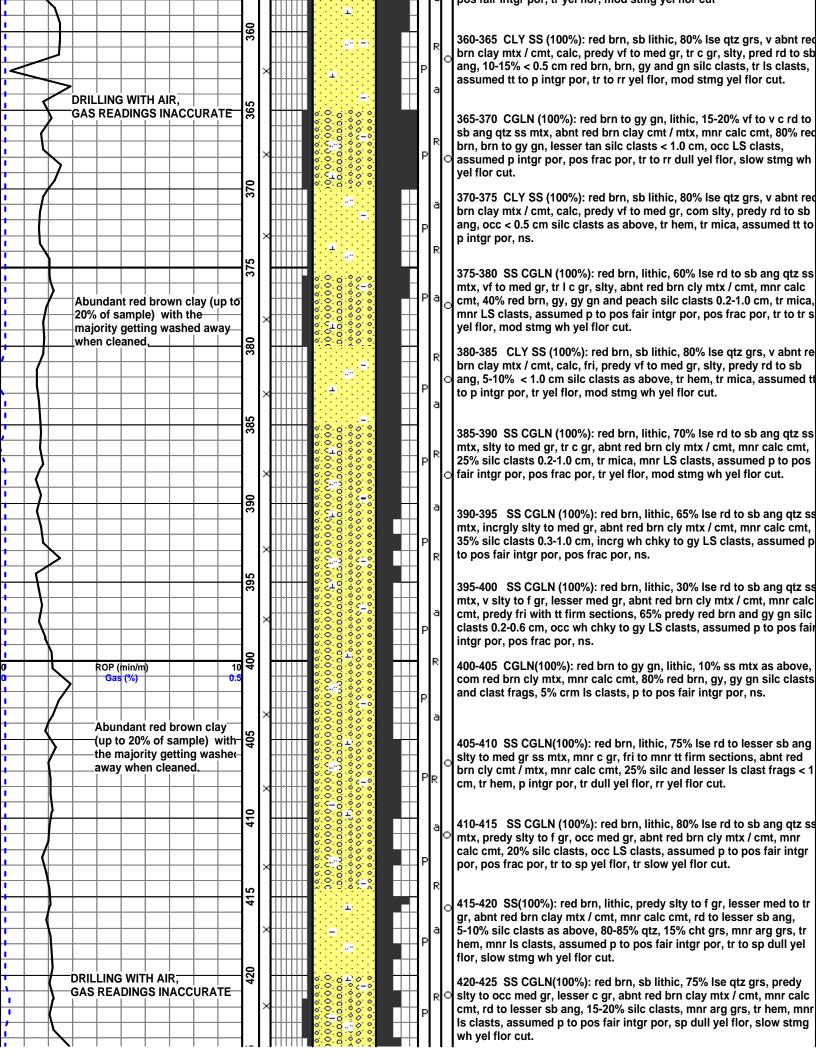


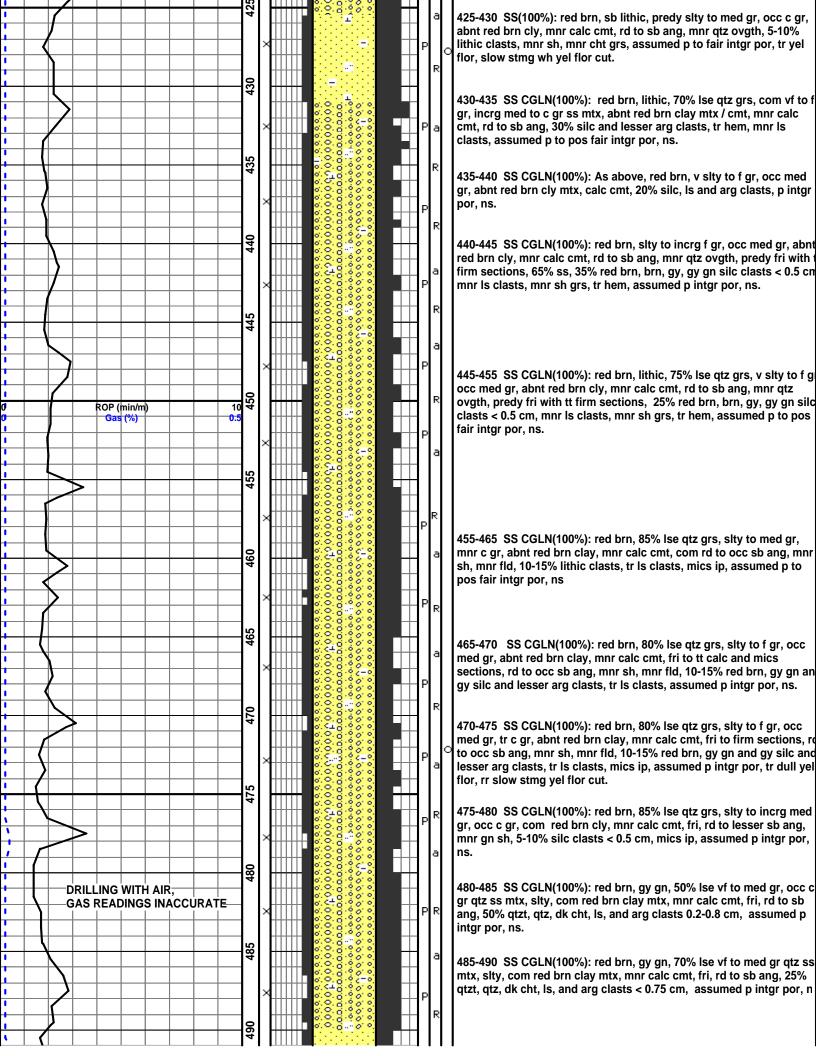


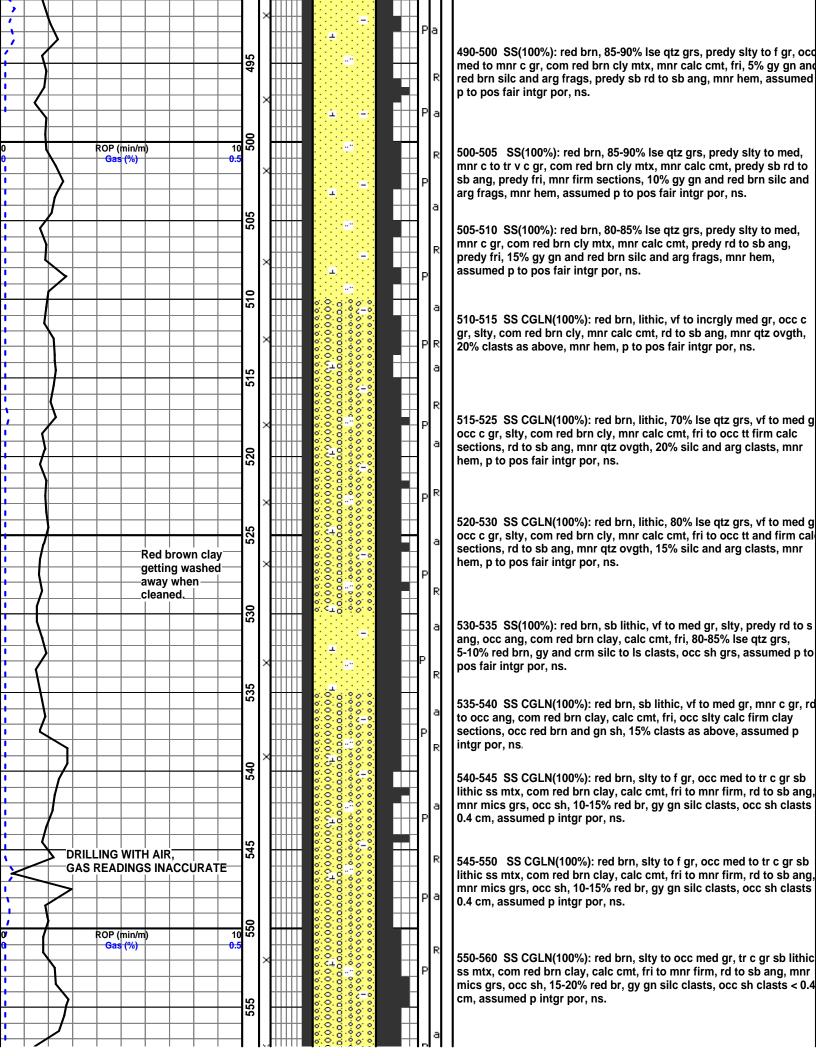


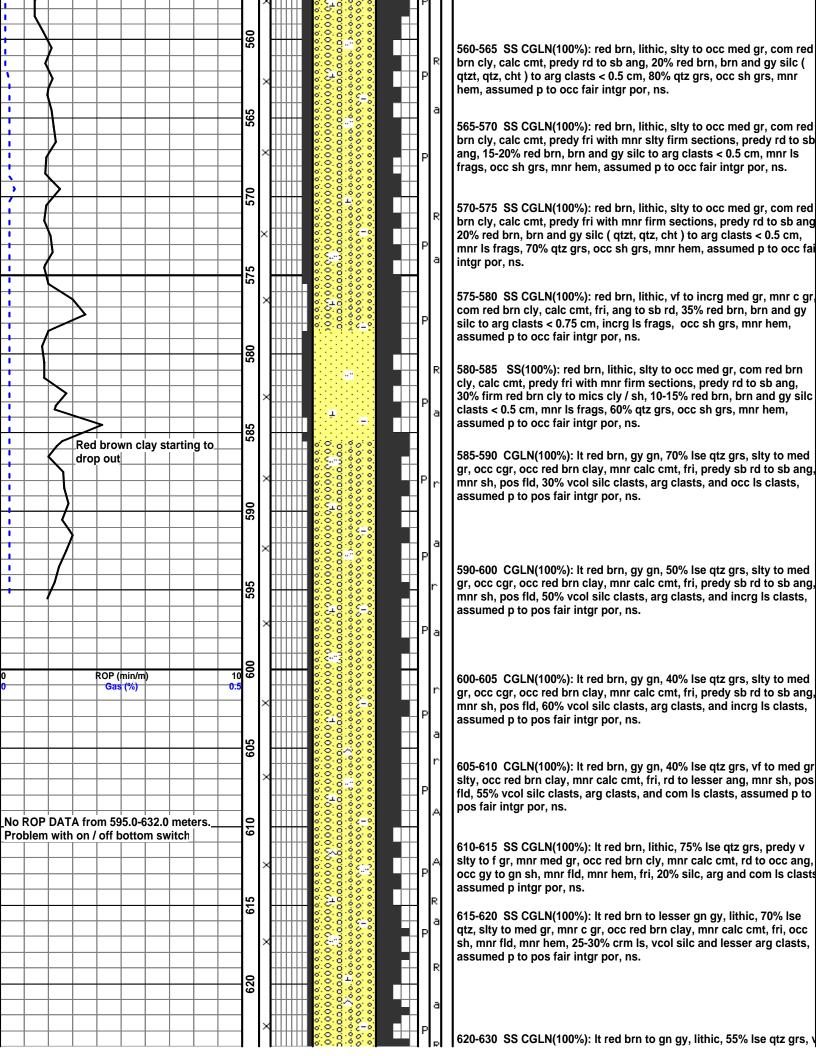


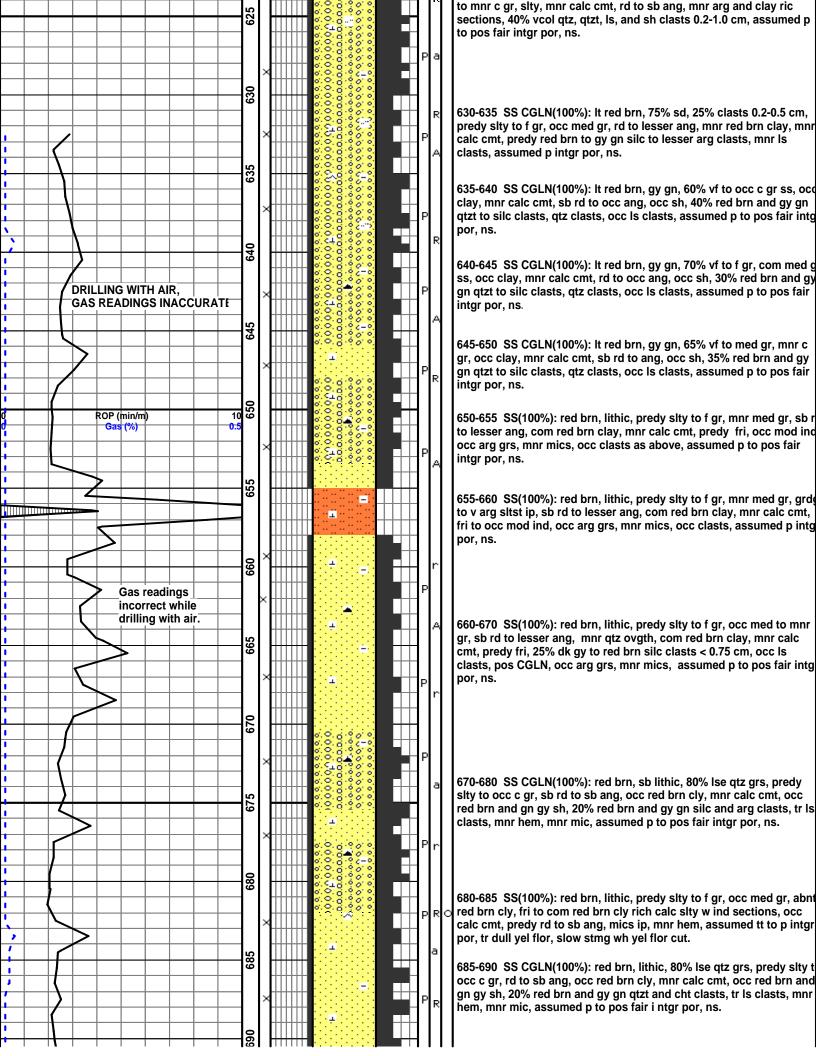


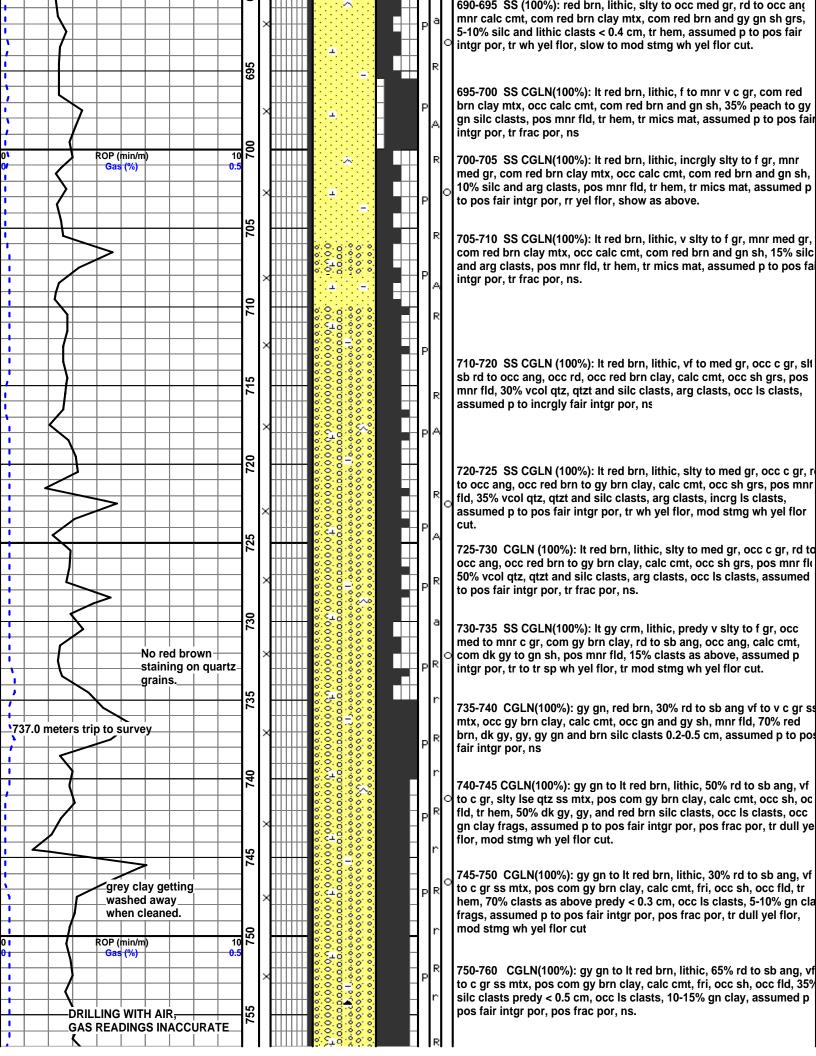


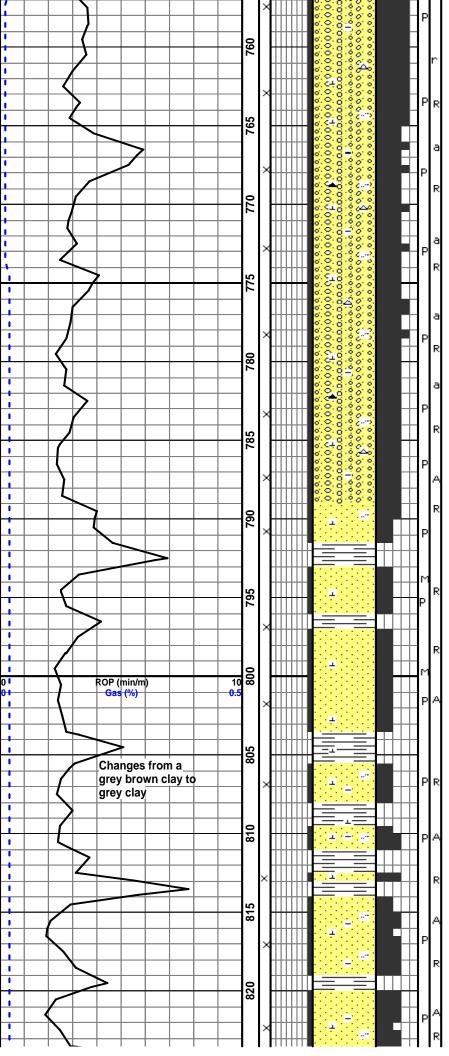












755-765 CGLN(100%): gy gn to lt red brn, lithic, 25% rd to sb ang, vf to c gr ss mtx, occ slt, pos gy brn clay, calc cmt, fri to mnr tt silc sections, occ sh, 75% qtzt and silc clasts predy < 0.5 cm, incrg ls clasts, 15% gn clay / sh, assumed p to fair intgr por, pos frac por, ns.

765-775 CGLN(100%): gy gn to lt red brn, lithic, 50% rd to sb ang, predy slty to med gr, occ c gr ss mtx, com gy brn clay, calc cmt, fri, occ sh, 50% vcol qtzt and silc clasts predy < 0.5 cm, occ ls clasts, 15% gn clyst, assumed p to fair intgr por, pos frac por, ns.

775-780 CGLN(100%): gy gn to It red brn, lithic, 60% rd to sb ang, predy slty to med gr, occ c gr ss mtx, com gy brn clay, calc cmt, fri, occ sh, 40% vcol qtzt and silc clasts predy < 0.5 cm, occ Is clasts, 15% gn clyst, assumed p to fair intgr por, pos frac por, ns.

780-785 CGLN(100%): gy gn to It red brn, lithic, 70% lse rd to sb ang predy vf to com med and lesser c gr ss mtx, slty, com gy brn clay, calc cmt, fri, occ sh, 30% vcol silc to sh clasts predy < 0.4 cm, mnr ls clasts, 15% gn and red brn clyst, tr hem, assumed p to fair intgr por, pos frac por, ns.

785-790 SS(100%): gy gn to red brn, lithic, predy slty to med gr, calc cmt, rd to occ ang, fri to occ tt firm calc sections, 15% red brn to lesser gn sh frags, com red brn and gn sh grs?, mics ip, predy p to pos fair intgr por, ns.

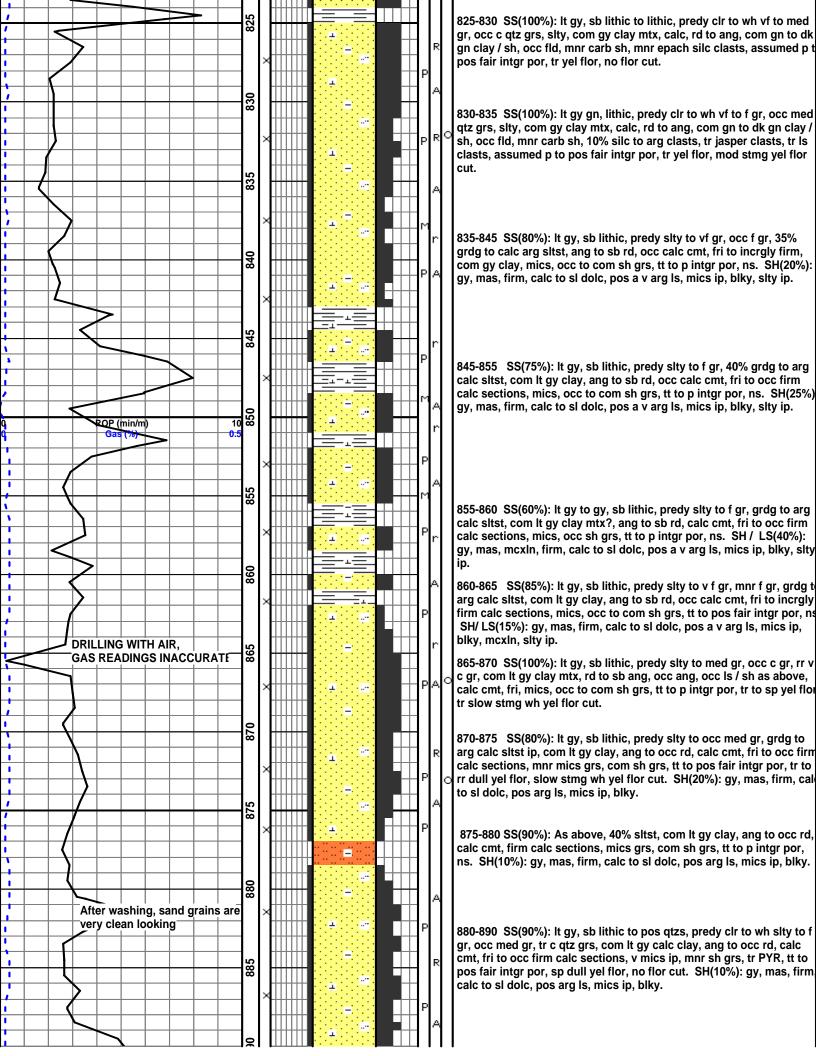
790-795 SS(100%): It gy gn, lithic, clr to wh slty to f qtz grs, com gy clay, calc cmt, fri to occ tt firm sections, rd to occ ang, 35% red brn and gn slty sh, occ mics, tt to pos fair intgr por, ns.

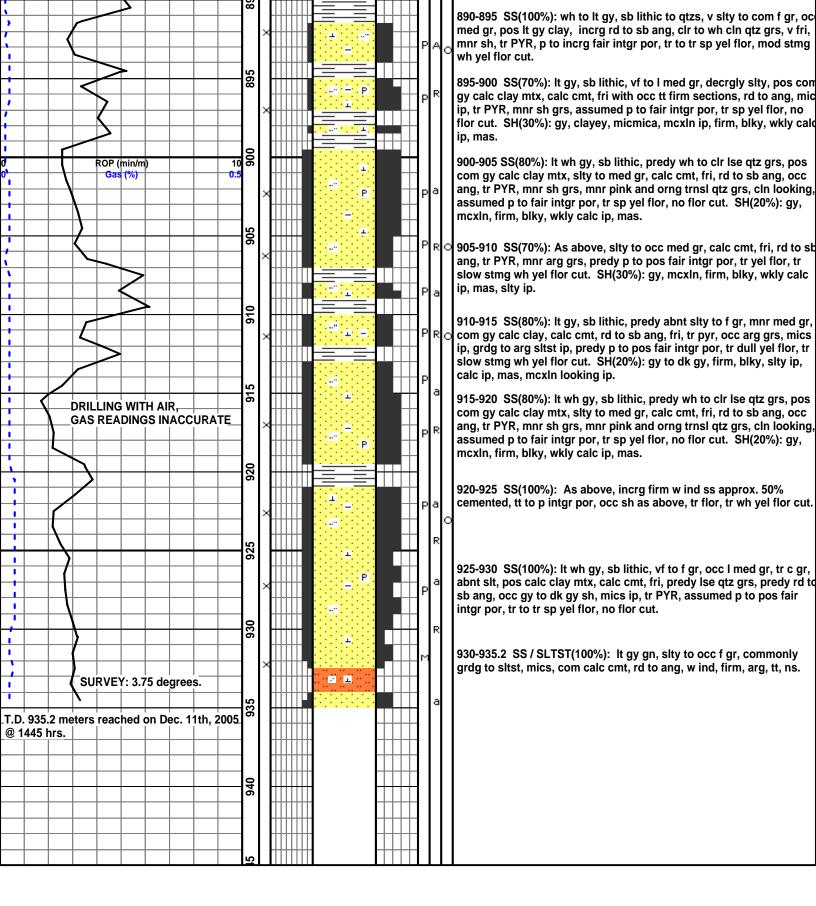
795-805 SS(65%): It gy gn, lithic, clr to wh slty to f qtz grs, com gy clay, calc cmt, grdg to sltst ip, fri to occ tt firm sections, rd to occ ang, occ mics, tt to pos fair intgr por, ns. SH(35%): red brn to gn, blky, slty ip, firm, micmica to occ mics, wkly calc, clayey.

805-810 SS(40%): As above, It gy gn, lithic, slty to f qtz grs, com gy clay, incrg calc cmt, grdg to sltst ip, rd to occ ang, occ mics, tt to pos fair intgr por, ns. SH(60%): red brn to gn, blky, slty ip, firm, micmica to occ mics, wkly calc, clayey.

810-815 SS(100%): It gy gn, lithic, clr to wh slty to sl incrg med qtz grs, grdg to sltst ip, com gy clay mtx?, calc cmt, fri to occ tt firm sections, rd to occ ang, 30% red brn and gn slty sh, occ mics, tt to pos fair intgr por, ns.

820-830 SS(100%): It gy, sb lithic to lithic, vf to med gr, com slt, com gy clay mtx, calc cmt, rd to occ ang, occ to com gy to gy gn sh, mnr mics mat, mnr fld, assumed p to pos fair intgr por, ns.







**APPENDIX H: DOWNHOLE LOGS** 

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



# **APPENDIX I: EMPLOYEE BENEFITS SUMMARY**

# Hurricane #2 (Whip #1): Drilling Operations

	Resid	dence	
Week	NL	Other	Total
1	15	0	15
2	11	0	11
3	15	0	15
4	15	2	17
5	9	0	9

Average number of workers on site each week	13.4
Percentage of workers residents of NL	97.0%
Percentage of workers non-residents of NL	3.0%

#### Hurricane #2 (Whip #1)

Week			1					2		
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					0					0
Supervisors					0					0
Rig Mangers	1	7			1	1	7			1
Drillers	2	7			2	2	7			2
Floorhands	4	7			4	4	7			4
Geologists	1	6			1	1	7			1
Mud Loggers					0					0
MWD/Directional					0					0
Wireline Logging					0					0
Cementing	1	1			1	1	1			1
Testing					0					0
Administration					0					0
Security	1	2			1					0
Heavy Equipment Operators	2	5			2	1	6			1
Welders & Helpers	1	3			1					0
Fuel Hauler	1	1			1	1	3			1
Winterization					0					0
Waste Disposal	1	1			1					0
Total	15		0		15	11		0		11

#### Hurricane #2 (Whip #1)

Week			3					4		
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	3	}		1	1	5			1
Supervisors					0					0
Rig Mangers	1	7			1	1	7			1
Drillers	2	7			2	2	7			2
Floorhands	4	7			4	4	7			4
Geologists	1	7			1	1	5			1
Mud Loggers					0					0
MWD/Directional					0					0
Wireline Logging					0			2	1	2
Cementing	1	2			1	1	2			1
Testing					0					0
Administration					0					0
Security					0	1	1			1
Heavy Equipment Operators	1	4			1	1	1			1
Welders & Helpers	1	1			1	1	2			1
Fuel Hauler	1	4			1	1	2			1
Winterization	2	3			2					0
Waste Disposal					0	1	1			1
Total	15		0		15	15		2		17

### Hurricane #2 (Whip #1)

Week			5		
Position	NL Residents	# of Days Worked	Non- NL Residents	# of Days Worked	Total
Project Manager / Engineer					0
Supervisors					0
Rig Mangers	1	5			1
Drillers	1	4			1
Floorhands	2	4			2
Geologists					0
Mud Loggers					0
MWD/Directional					0
Wireline Logging					0
Cementing					0
Testing					0
Administration					0
Security	1	4			1
Heavy Equipment Operators	2	5		1	2
Welders & Helpers	1	5			1
Fuel Hauler					0
Winterization					0
Waste Disposal	1	1			1
Total	9		0		9



# **APPENDIX J: DAILY OPERATIONAL REPORTS**

vven ivali	ne: Hurric	ane #2 (W	/hip #1)			REPORT #:	1	DATE:	Novem	ber 23, 2005
DEPTH 24:00:		.0 m	PROGRESS:	18.	0 m	Last 24 Hr Rota		11.25 hr	Ave ROP	2 1.6 m/hr
OPER 06:00:	Wait on Ce	ment				FOREMAN:	Tom	Targett	MOBILE NO .:	709-689-4601
DAILY COST:			HOLE CND.:	Go	bod	WEATHER:	Ra	iining	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	and RD10	TEMP.:	3	3°C	T.P. MOBILE:	709-649-4957
FORMATION:			K.B. ELEV.:	3.3	3 m	ROADS:	G	iood		
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	g fluid		PUMP	S
Bit No.	1			19 m	0.25 °	Time	2400	Pump No.	1	
Size (mm)	311					Depth(m)	19	Make	Gardner D	enver
Mfg.	Hughs					Density	1040	Model	PY-7	
Туре	EP5070					Mud Grad		Liner X Stk	6"	
Serial #	622507					Vis	39	SPM	40	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	0					YP		Pump Rate	0.39	
To (mKB)	18					Gels		Pump Press.		
Hrs on Bit	11 1/4					рН		Drillpipe AV		
WOB (daN)	2					WL (cc's)		Drillcollar AV		
RPM	60					Filter Cake		Nozzle Vel		
Condition	2					Sand (%)				
Pulled For?						Solids (%)		M	IUD & CHEN	<b>/IICALS</b>
Meters						Oil (%)		Mud Cycle	4	min
m/hr						Pf/Mf		Bottoms Up	4	min
Cum Hrs						MBT		Tanks		m3
						CI (ppm)		Hole Volume	1	m3
BOTTOMH	OLE ASSE					Ca (ppm)		System Vol.	1	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	4				
1	Bit			6 5/8" REG				Mud & Chem	icals Added:	
2	STAB			6 5/8" REG >	( 2 7/8"IF	Mud Co.		Soda Ash 2		
3						Mud Man			32	
BHA Length:	4.12	Hook Load:		DP size		Mud Up @		Lime 1	I	
Avail WOB:		Jts DP Racks		DC Conn:			3	-		
Jts DP in hole:	2	DP on Loc:	152	DP Conn:		VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIO	NS TIME BR	EAKDOWN			Water added		Mud Daily Co	ost	
RU / TO	3 1/2	Survey		Plug Back		Losses		Mud Cum Co	st	
Drill Actual	11 1/4	Logging		Fishing		WELL CON	ITROL	SOLIDS C	ONTROL	
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make	•	FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh	1	
Rm Rathole		WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ	1 1/2	NU BOP's		Safety meet	1/4	Calc Hole Fill		Vol UF (l/min	)	
Tripping		Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig	1/2	Drill Out Cmt		BOP Drill	_	Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST		WAIT on Daylight	7	Calc Hole Fill		Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY F		ATE :	Novembe	r 22, 2005	(0000 hrs - 2	2400 hrs)			
From	То	Duration				E١	vent			
0:00	7:00	7.00		ylight / Water						
7:00	10:30	3.50	Rig Up							
10:30	10:45	0.25	Safety mee							
10:45	11:00	0.25	Rig Service							
	15:30	4.50	-	h Hole From C		ntrs				
11:00		1.50	Build up Vis	s in Mud Tank						
15:30	17:00		<b>B</b> 111 <b>B</b> 1	h Hole From 1	2mtrs to 18n	ntrs				
15:30 17:00	17:00 23:45	6.75	Drill 311mn							
15:30	17:00		Drill 311mn Rig Service							
15:30 17:00	17:00 23:45	6.75	-							
15:30 17:00	17:00 23:45	6.75	-							
15:30 17:00	17:00 23:45	6.75	-							
15:30 17:00	17:00 23:45	6.75	-							
15:30 17:00	17:00 23:45	6.75	-							
15:30 17:00	17:00 23:45	6.75	-							
15:30 17:00	17:00 23:45	6.75	-							
15:30 17:00	17:00 23:45 0:00	6.75	-							

well Nam	ne: Hurric		nıp #1)			REPORT #:	2	DATE:	Noverr	nber 24, 2005
DEPTH 24:00:		.0 m	PROGRESS	: 1.0	) m	Last 24 Hr Rota		1.25 hr	Ave RO	
DPER 06:00:	Tag Cemer	nt	i			FOREMAN:	Tom	Targett	MOBILE NO .:	709-689-460
DAILY COST:			HOLE CND .:			WEATHER:	C	lear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	4	4°C	T.P. MOBILE:	709-649-4957
ORMATION:			K.B. ELEV.:	3.3	3 m	ROADS:	G	lood		
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	g fluid		PUMP	S
Bit No.	1			19 m	0.25 °	Time	1000	Pump No.	1	-
Size (mm)	311					Depth(m)	19	Make	Gardner D	enver
Mfg.	Hughs					Density	1040	Model	PY-7	
Гуре	EP5070					Mud Grad		Liner X Stk	6"	
Serial #	622507					Vis	38	SPM	40	
Vozzles	OPEn					PV	00	Pump Eff.	95%	
From (mKB)	0					YP		Pump Rate	0.39	
Го (mKB)	19					Gels		-	100	
. ,	12 1/2							Pump Press.	100	
Irs on Bit	-					рН		Drillpipe AV		
VOB (daN)	4					WL (cc's)		Drillcollar AV		
RPM	60					Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?	TD					Solids (%)		M	UD & CHEM	MICALS
Veters	15					Oil (%)		Mud Cycle	81	min
n/hr						Pf/Mf		Bottoms Up	4	min
Cum Hrs						мвт		Tanks	30	m3
						CI (ppm)		Hole Volume	1	m3
воттомн	IOLE ASSEM	MBLY	•			Ca (ppm)		System Vol.	31	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	ou (ppiii)		oystem vol.	01	mo
1	Bit	Max OD	WIIT ID	6 5/8" REG				Mud & Chemi	cals Addod:	
2	STAB			6 5/8" REG >	2 7 /0"IE	Mud Co.		Muu & Cherni	cais Audeu.	
	STAD			0 5/0 REG 2	X 2 1/0 IF	-				
3						Mud Man				
3HA Length:		Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:			2	_		
Its DP in hole:		DP on Loc:		DP Conn:		VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIO	NS TIME BR	EAKDOWN			Water added		Mud Daily Co	st	
RU / TO		Survey	1/4	Plug Back		Losses		Mud Cum Co	st	
Drill Actual	1 1/4	Logging		Fishing		WELL CON	TROL	SOLIDS C	ONTROL	
Reaming	, .	Run Casing	2 1/4	Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		
Rm Rathole		WOC		Mix LCM		MACP(kPa)		Onaker Mean	Desilter	Centrifuge
		NU BOP's			1/4					Centinuge
Cond / Circ	1/0			Safety meet	1/4	Calc Hole Fill		Vol UF (I/min)		
Fripping	1/2	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
ubricate Rig	1/4	Drill Out Cmt		BOP Drill	40.4/4	Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST		woc	19 1/4	Calc Hole Fill		Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY F	OR THE DA	TE:	Novembe	r 23, 2005	(0000 hrs - 2	2400 hrs)			
From	То	Duration				Ev	/ent			
0:00	1:15	1.25	Drill 311mr	n Hole From 1	18 to 19.36m					
1:15	1:30	0.25	Circulate	-						
1:30	1:45	0.25	Wiper Trip							
1:45	2:00	0.25	Circulate							
2:00	2:00	0.25	Survey							
				y Down Bit ar	d Stabilizar					
2:15	2:30	0.25	Safety Mee		iu Stabilizer					
2:30	2:45	0.25		0	!					
	4:00	1.25		Run 9 5/8" Ca						
2:45	1000	6.00		ment, Circula			. = .			
2:45 4:00	10:00		Pump 5Cu	ibe Spacer,1 (						
2:45 4:00 10:00	11:00	1.00		mont Propar	re Diverter,Ro					
2:45 4:00		1.00 13.00	Wait on Ce					ir Dicebargo		
2:45 4:00 10:00	11:00		Wait on Ce	Cut Cas	ing and Cond					ow Line
2:45 4:00 10:00	11:00		Wait on Ce							ow Line
2:45 4:00 10:00	11:00		Wait on Ce	Cut Cas						ow Line
2:45 4:00 10:00	11:00		Wait on Ce	Cut Cas						ow Line
2:45 4:00 10:00	11:00		Wait on Ce	Cut Cas						ow Line
2:45 4:00 10:00	11:00 0:00		Wait on Ce	Cut Cas						ow Line

	ne: Hurrica		nıp #1)			REPORT #:	3	DATE:	1	ber 25, 2005
DEPTH 24:00:		.0 m	PROGRESS	: 70.	.0 m	Last 24 Hr Rota		7.50 hr	Ave ROF	
OPER 06:00:	Mix Mud ,W	ait on Water	1			FOREMAN:		Targett	MOBILE NO.:	709-689-460
AILY COST:			HOLE CND.:		bod	WEATHER:		lear	TOOLPUSH:	Tom Targett
UM COST:			RIG / RIG #:	Ş	Rand RD10	TEMP.:		0°C	T.P. MOBILE:	709-649-495
ORMATION:			K.B. ELEV.:	3.0	3 m	ROADS:	G	ood		
								71	DUMD	
		ORMANCE	1	19 m	VEYS 0.25 °	DRILLIN Time	GFLUID	Duran Na	PUMPS 1	>
Bit No. Bize (mm)	219			1911	0.25	Depth(m)		Pump No. Make	Gardner De	anver
Afg.	Mission					Density	Air	Model	PY-7	
ype	Hammer					Mud Grad	7 40	Liner X Stk	6"	
Serial #	B98290					Vis		SPM	40	
vozzles	Open					PV		Pump Eff.	95%	
rom (mKB)	19					YP		Pump Rate	0.39	
o (mKB)	89					Gels		Pump Press.		
Irs on Bit	5					рН		Drillpipe AV		
VOB (daN)	1					WL (cc's)		Drillcollar AV		
RPM	20					Filter Cake		Nozzle Vel		
Condition	Good					Sand (%)				
Pulled For?	Water					Solids (%)		-	UD & CHEN	
Veters	70					Oil (%)		Mud Cycle	86	min
n/hr						Pf/Mf		Bottoms Up	9	min
Cum Hrs						MBT		Tanks	30	m3
POTTON				<u></u>		CI (ppm)		Hole Volume	3	m3
		Max OD	Min ID	Connection S		Ca (ppm)		System Vol.	33	m3
<u>No.</u> 1	Item Bit	Max OD	Min ID	Connection	Size & Type	-		Mud & Chamia	ala Addadu	
2	STAB					Mud Co.		Mud & Chemic	als Audeu.	
3	OTAB					Mud Co. Mud Man				
3HA Length:		Hook Load:		DP size		Mud Up @				
vail WOB:		Jts DP Racks		DC Conn:						
Its DP in hole:		DP on Loc:		DP Conn:		VOLUMES	M <sup>3</sup>			
	OPERATION			Di Comi.	<u> </u>	Water added		Mud Daily Cos		
RU / TO		Survey		Plug Back	1	Losses		Mud Cum Cos		
Drill Actual	7 1/2	Logging		Fishing		WELL CON		SOLIDS CO		
Reaming	7 172	Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		
Rm Rathole		woc		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's	6	Safety meet	1/4	Calc Hole Fill		Vol UF (l/min)		0
	2 3/4			Weld on Bowl	5	Act Hole Fill		U.F. (kg/m3)		
Tripping	20/1	Test BOPs								
Fripping Lubricate Rig	3/4	Test BOPs Drill Out Cmt		BOP Drill		Lst BOP Drill:		O.F. (kg/m3)		
				BOP Drill		Lst BOP Drill: Calc Hole Fill				
ubricate Rig Repair Rig	3/4	Drill Out Cmt		BOP Drill Total Hrs	24			O.F. (kg/m3)		(to 24:00)
ubricate Rig Repair Rig Slip/Cut Line	3/4	Drill Out Cmt DST Hndle Tools		Total Hrs	24 er 24, 2005	Calc Hole Fill	2400 hrs)	O.F. (kg/m3) Hours/Days		(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From	3/4 1 3/4 SUMMARY F To	Drill Out Cmt DST Hndle Tools OR THE DA Duration		Total Hrs Novembe	er 24, 2005	Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
Aubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00	3/4 1 3/4 SUMMARY F To 3:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00	Cut Csg,W	Total Hrs Novembe	er 24, 2005 Screw on Bo	Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
ubricate Rig Repair Rig Slip/Cut Line 24 HOUR \$ From 0:00 3:00	3/4 1 3/4 SUMMARY F To 3:00 3:15	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25	Cut Csg,W Make up B	Total Hrs Novembe eld on Collar, it Stablizer RI	er 24, 2005 Screw on Boy H	Calc Hole Fill <u>Act Hole Fill</u> (0000 hrs - 2 <b>Ev</b> wl , Torqe Sa	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
ubricate Rig Repair Rig Blip/Cut Line 24 HOUR \$ From 0:00 3:00 3:15	3/4 1 3/4 SUMMARY F To 3:00 3:15 4:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75	Cut Csg,W Make up B Nipple up [	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter,Rotati	er 24, 2005 Screw on Boy H	Calc Hole Fill <u>Act Hole Fill</u> (0000 hrs - 2 <b>Ev</b> wl , Torqe Sa	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
ubricate Rig Repair Rig Stip/Cut Line 24 HOUR S From 0:00 3:00 3:15 4:00	3/4 1 3/4 SUMMARY F To 3:00 3:15 4:00 6:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00	Cut Csg,W Make up B Nipple up E Fab and W	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter,Rotati 'eld Flowline	er 24, 2005 Screw on Boy H	Calc Hole Fill <u>Act Hole Fill</u> (0000 hrs - 2 <b>Ev</b> wl , Torqe Sa	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
ubricate Rig tepair Rig 24 HOUR \$ From 0:00 3:00 3:15 4:00 6:00	3/4 1 3/4 <b>SUMMARY F</b> 3:00 3:15 4:00 6:00 7:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemen	Total Hrs Novembe feld on Collar, it Stablizer RII Diverter,Rotati feld Flowline nt @ 9mtrs	er 24, 2005 Screw on Bo H ing Head,Rig	Calc Hole Fill <u>Act Hole Fill</u> (0000 hrs - 2 <b>Ev</b> wl , Torqe Sa	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
Ubricate Rig tepair Rig tilip/Cut Line 24 HOUR S From 0:00 3:00 3:15 4:00 6:00 7:00	3/4 1 3/4 SUMMARY F To 3:00 3:15 4:00 6:00 7:00 8:45	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemen Repair Pac	Total Hrs Novembe reld on Collar, it Stablizer RII Diverter,Rotati reld Flowline nt @ 9mtrs sking in Topdri	er 24, 2005 Screw on Bo H ing Head,Rig ive	Calc Hole Fill <u>Act Hole Fill</u> (0000 hrs - 2 <b>Ev</b> wl , Torqe Sa	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
bbricate Rig lip/Cut Line 14 HOUR S From 0:00 3:00 3:15 4:00 6:00 7:00 8:45	3/4 1 3/4 SUMMARY F To 3:00 3:15 4:00 6:00 7:00 8:45 9:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemer Repair Pac Safety Mee	Total Hrs Novembe reld on Collar, it Stablizer RII Diverter,Rotati reld Flowline nt @ 9mtrs king in Topdri eting prior to D	er 24, 2005 Screw on Bor H ing Head,Rig ive DrillOut	Calc Hole Fill <u>Act Hole Fill</u> (0000 hrs - 2 <b>Ev</b> wl , Torqe Sa	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
Ubricate Rig lip/Cut Line 24 HOUR \$ From 0:00 3:00 3:15 4:00 6:00 7:00 8:45 9:00	3/4 1 3/4 <b>SUMMARY F</b> 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25 0.25 1.50	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemen Repair Pac Safety Mee Drill Out Ce	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter,Rotati eld Flowline nt @ 9mtrs cking in Topdri eting prior to D ement and Sh	er 24, 2005 Screw on Bor H ing Head,Rig ive DrillOut	Calc Hole Fill <u>Act Hole Fill</u> (0000 hrs - 2 <b>Ev</b> wl , Torqe Sa	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
bbricate Rig lip/Cut Line 24 HOUR \$ From 0:00 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30	3/4 1 3/4 SUMMARY F To 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25 0.25 1.50 0.25	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemer Repair Pac Safety Mee Drill Out Co Rig Service	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter, Rotati feld Flowline nt @ 9mtrs sking in Topdri eting prior to D ement and Sh	ir 24, 2005 Screw on Bor H ing Head,Rig ive DrillOut oe	Calc Hole Fill <u>Act Hole Fill</u> (0000 hrs - 2 <b>Ev</b> wl , Torqe Sa	vent	O.F. (kg/m3) Hours/Days		(to 24:00)
Ubricate Rig Repair Rig Ilip/Cut Line 24 HOUR S From 0:00 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45	3/4 1 3/4 <b>SUMMARY F</b> <b>To</b> 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25 1.50 0.25 1.50 0.25 1.25	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemer Repair Pac Safety Mee Drill Out Co Rig Service Rig Out Div	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter, Rotati feld Flowline nt @ 9mtrs sking in Topdri eting prior to D ement and Sh everter , Rotatir	screw on Bor H ing Head,Rig ive DrillOut oe ng Head ,	Catc Hole Fill Act Hole Fill (0000 hrs - 2 Ev wl , Torqe Sa in Flowline	me	O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)
Ubricate Rig lip/Cut Line 4 HOUR \$ From 0:00 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00	3/4 1 3/4 <b>SUMMARY F</b> <b>To</b> 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25 1.50 0.25 1.50 0.25 1.25 1.25	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemer Repair Pac Safety Mee Drill Out Co Rig Service Rig Out Div POOH to C	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter, Rotati feld Flowline nt @ 9mtrs sking in Topdri eting prior to D ement and Sh werter , Rotatir Change out Tri	ir 24, 2005 Screw on Bor H ing Head,Rig vive DrillOut oe ng Head , i-cone for Air	Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev wl , Torqe Sa in Flowline Hammer , RI	me H With Har	O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)
Ubricate Rig Repair Rig Ilip/Cut Line 24 HOUR \$ From 0:00 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00	3/4 1 3/4 <b>SUMMARY F</b> <b>To</b> 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00 17:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25 1.50 0.25 1.50 0.25 1.50 0.25 1.25 1.00	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemen Repair Pac Safety Mee Drill Out Co Rig Service Rig Out Div POOH to C Make up D	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter, Rotati eld Flowline nt @ 9mtrs sking in Topdri eting prior to D ement and Sh werter , Rotatir Change out Tri iverter, Rotatir	er 24, 2005 Screw on Bor H ing Head,Rig DrillOut oe ng Head , i-cone for Air ng Head , Air	Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev wl , Torqe Sa in Flowline Hammer , RI	me H With Har	O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)
Ubricate Rig Repair Rig Idip/Cut Line 24 HOUR S From 0:00 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00 17:00	3/4 1 3/4 <b>SUMMARY F</b> <b>To</b> 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00 17:00 18:30	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25 1.50 0.25 1.50 0.25 1.50 0.25 1.25 1.00 4.00	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemer Repair Pac Safety Mee Drill Out Ce Rig Service Rig Out Div POOH to C Make up D Drill 219mr	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter,Rotati eld Flowline nt @ 9mtrs kking in Topdri sting prior to D ement and Sh everter , Rotatir Change out Tri iverter,Rotatir n Hole From 1	er 24, 2005 Screw on Bor H ing Head,Rig vive DrillOut oe mg Head , i-cone for Air ng Head , Air 19 to 43mtrs	Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev wl , Torqe Sa in Flowline Hammer , RI Discharge Lin	H With Hai	O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)
Ubricate Rig lip/Cut Line 24 HOUR S From 0:00 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00 17:00 18:30	3/4 1 3/4 <b>SUMMARY F</b> <b>To</b> 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00 17:00 18:30 19:00	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25 1.50 0.25 1.50 0.25 1.50 0.25 1.25 1.00 4.00 4.00	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemer Repair Pac Safety Mee Drill Out Co Rig Service Rig Out Div POOH to C Make up D Drill 219mm Rig Service	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter, Rotati feld Flowline nt @ 9mtrs sking in Topdri eting prior to D ement and Sh everter , Rotatir Change out Tri iverter, Rotatir n Hole From 1 e,Clean Air Fil	er 24, 2005 Screw on Bor H ing Head,Rig vive DrillOut oe mg Head , i-cone for Air ng Head , Air 19 to 43mtrs ter on Compl	Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev wl , Torqe Sa in Flowline Hammer , RI Discharge Lin	H With Hai	O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)
Ubricate Rig Repair Rig Idip/Cut Line 24 HOUR S From 0:00 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00 17:00	3/4 1 3/4 <b>SUMMARY F</b> <b>To</b> 3:00 3:15 4:00 6:00 7:00 8:45 9:00 10:30 10:45 12:00 13:00 17:00 18:30	Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.00 0.25 0.75 2.00 1.00 1.75 0.25 1.50 0.25 1.50 0.25 1.50 0.25 1.25 1.00 4.00	Cut Csg,W Make up B Nipple up I Fab and W Tag Cemer Repair Pac Safety Mee Drill Out Ce Rig Service Rig Out Div POOH to C Make up D Drill 219mr Rig Service Drill 219mr	Total Hrs Novembe eld on Collar, it Stablizer RII Diverter,Rotati eld Flowline nt @ 9mtrs kking in Topdri sting prior to D ement and Sh everter , Rotatir Change out Tri iverter,Rotatir n Hole From 1	r 24, 2005 Screw on Bor H ing Head,Rig vive DrillOut oe ng Head , i-cone for Air ng Head , Air 19 to 43mtrs ter on Compi 43 to 89mtrs	Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev wl , Torqe Sa in Flowline Hammer , RI Discharge Liu ressor ,Add C	H With Hai	O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)

	ne: Hurric	ane #2 (w	hip #1)			REPORT #:	4	DATE:	Novem	ber 26, 2005
DEPTH 24:00:		.0 m	PROGRESS:	3.0	0 m	Last 24 Hr Rota		1.00 hr	Ave ROP	
OPER 06:00:	Wait On Ce	ement				FOREMAN:	Tom	Targett	MOBILE NO .:	709-689-460
DAILY COST:			HOLE CND.:			WEATHER:	С	lear	TOOLPUSH:	Tom Targett
UM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	-2	2°C	T.P. MOBILE:	709-649-495
ORMATION:			K.B. ELEV.:	-	3 m	ROADS:	G	ood		
			-							
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	G FLUID	Î	PUMPS	S
Bit No.	2			19 m	0.25 °	Time		Pump No.	1	
Size (mm)	216					Depth(m)		Make	Gardner D	enver
Mfg.	Varel					Density		Model	PY-7	
Гуре	ET0537					Mud Grad		Liner X Stk	6"	
Serial #	13654					Vis		SPM	40	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	89					YP		Pump Rate	0.39	
To (mKB)	92					Gels		Pump Press.	0.00	
Hrs on Bit	1					pH		-		
	2							Drillpipe AV		
NOB (daN)	2 60					WL (cc's)		Drillcollar AV		
RPM	60					Filter Cake		Nozzle Vel		
Condition	1 0'					Sand (%)		H		
Pulled For?	Lost Circ					Solids (%)		-	UD & CHEN	
Meters						Oil (%)		Mud Cycle	9	min
m/hr						Pf/Mf		Bottoms Up	9	min
Cum Hrs						МВТ		Tanks		m3
						CI (ppm)		Hole Volume	3	m3
воттомн	OLE ASSE	MBLY				Ca (ppm)		System Vol.	3	m3
No.	Item	Max OD	Min ID	Connection \$	Size & Type					
1	Bit							Mud & Chemi	cals Added:	
2	STAB					Mud Co.		Gel 43		
3						Mud Man		Sawdust 14		
3HA Length:		Hook Load:	<u> </u>	DP size		Mud Up @		Quick Seal 1	7	
Avail WOB:		Jts DP Racks		DC Conn:		muu op e		Soda Ash		
			450				M <sup>3</sup>	Codd / ISH	•	
Its DP in hole:		DP on Loc:	152	DP Conn:		VOLUMES	IVI			
	OPERATIO	NS TIME BR	EAKDOWN		1	Water added		Mud Daily Co		
RU / TO		Survey		Plug Back		Losses		Mud Cum Cos	st	
Drill Actual	1	Logging		Fishing		WELL CON	TROL	SOLIDS C	ONTROL	
Reaming		Run Casing	3/4	Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		
			5	Mix LCM		MACP(kPa)			Desilter	Centrifuge
Rm Rathole		WOC	-		1/2			Vol UF (l/min)		
Rm Rathole Cond / Circ	8	WOC NU BOP's	-	Safety meet		Calc Hole Fill				
Cond / Circ	8 4 1/2			Safety meet Weld on Bowl		Calc Hole Fill Act Hole Fill		U.F. (kg/m3)		
		NU BOP's Test BOPs		-				U.F. (kg/m3)		
Cond / Circ Fripping Lubricate Rig	4 1/2	NU BOP's		Weld on Bowl	4	Act Hole Fill		U.F. (kg/m3) O.F. (kg/m3)		
Cond / Circ Tripping Lubricate Rig Repair Rig	4 1/2	NU BOP's Test BOPs Drill Out Cmt DST		Weld on Bowl BOP Drill Wait on Water		Act Hole Fill Lst BOP Drill: Calc Hole Fill		U.F. (kg/m3) O.F. (kg/m3) Hours/Days		(to 24:00)
Cond / Circ Tripping ubricate Rig Repair Rig Slip/Cut Line	4 1/2 1/4	NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools		Weld on Bowl BOP Drill Wait on Water Total Hrs	24	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill	2400 bro	U.F. (kg/m3) O.F. (kg/m3)		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Blip/Cut Line 24 HOUR S	4 1/2 1/4	NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools		Weld on Bowl BOP Drill Wait on Water Total Hrs		Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	,	U.F. (kg/m3) O.F. (kg/m3) Hours/Days		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From	4 1/2 1/4 SUMMARY F	NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration	ATE :	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe	24 er 25, 2005	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	2400 hrs) <b>′ent</b>	U.F. (kg/m3) O.F. (kg/m3) Hours/Days		(to 24:00)
Cond / Circ 'ripping uubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00	4 1/2 1/4 SUMMARY F To 0:30	NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 0.50	ATE : POOH, Cha	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe	24 er 25, 2005 r fro Tri-cone	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	,	U.F. (kg/m3) O.F. (kg/m3) Hours/Days		(to 24:00)
Cond / Circ Tripping .ubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 0:30	4 1/2 1/4 <b>SUMMARY F</b> 0:30 1:30	NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>OR THE DA</b> <b>Duration</b> 0.50 1.00	NTE : POOH, Cha Nipple up D	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hammer Diverter,, Rig i	24 er 25, 2005 r fro Tri-cone n Flowline	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	,	U.F. (kg/m3) O.F. (kg/m3) Hours/Days		(to 24:00)
Cond / Circ Tripping .ubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 0:30 1:30	4 1/2 1/4 <b>SUMMARY F</b> 0:30 1:30 2:00	NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>OR THE DA</b> <b>Duration</b> 0.50 1.00 0.50	NTE : POOH, Cha Nipple up D RIH From 2	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R	24 er 25, 2005 r fro Tri-cone n Flowline tig Service	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev	rent	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping .ubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00	4 1/2 1/4 <b>SUMMARY F</b> 0:30 1:30 2:00 5:00	NU BOP'S Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 0.50 1.00 0.50 3.00	ATE : POOH, Cha Nipple up E RIH From 2 Fill Tanks ,	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc	24 er 25, 2005 r fro Tri-cone n Flowline tig Service	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev	rent	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00	4 1/2 1/4 <b>SUMMARY F</b> 0:30 1:30 2:00 5:00 9:00	NU BOP's Test BOP's Drill Out Cmt DST Hndie Tools OR THE DA Duration 0.50 1.00 0.50 3.00 4.00	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev reak Circ. @6	rent	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Stip/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00	4 1/2 1/4 <b>SUMMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:30	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> <b>Duration</b> 0.50 1.00 0.50 3.00 4.00 0.50	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hammer Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev reak Circ. @6	rent	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Stip/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:30	4 1/2 1/4 <b>SUMMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:30 14:30	NU BOP's Test BOPs Drill Out Cmt DST Hndie Tools OR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hammer Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS	Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev reak Circ. @6	rent	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Stip/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:30 14:30	4 1/2 1/4 <b>5000000000000000000000000000000000000</b>	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> <b>Duration</b> 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From Mix , PUMF Drill Blind F	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ ripping ubricate Rig Repair Rig 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:30 14:30 15:30	4 1/2 1/4 <b>UMMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15	NU BOP'S Test BOP'S Drill Out Cmt DST Hndle ToolS OR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.75	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conce ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ ripping ubricate Rig Repair Rig 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:30 14:30 15:30 16:15	4 1/2 1/4 <b>5UMMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:30 14:30 15:30 16:15 18:15	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools COR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.75 2.00	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH POOH , Ru	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste n in Hole Ope	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top en Ended ,	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Silp/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15 18:15	4 1/2 1/4 <b>UMMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools COR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.50 5.00 1.00 0.75 2.00 0.75	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH POOH , Ru	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conce ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top en Ended ,	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:30 14:30 15:30 16:15	4 1/2 1/4 <b>5UMMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:30 14:30 15:30 16:15 18:15	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools COR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.75 2.00	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH POOH , Ru PUMP 0.5m	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste n in Hole Ope	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top en Ended , 3 Cement 15.	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15 18:15	4 1/2 1/4 <b>50MMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15 18:15 19:00	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools COR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.50 5.00 1.00 0.75 2.00 0.75	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH POOH , Ru PUMP 0.5m	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste n in Hole Ope 3 Water, 5m3	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top en Ended , 3 Cement 15.	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15 18:15	4 1/2 1/4 <b>50MMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15 18:15 19:00	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools COR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.50 5.00 1.00 0.75 2.00 0.75	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH POOH , Ru PUMP 0.5m	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste n in Hole Ope 3 Water, 5m3	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top en Ended , 3 Cement 15.	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ ripping ubricate Rig Repair Rig 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:30 14:30 15:30 16:15 18:15	4 1/2 1/4 <b>50MMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15 18:15 19:00	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools COR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.50 5.00 1.00 0.75 2.00 0.75	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH POOH , Ru PUMP 0.5m	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste n in Hole Ope 3 Water, 5m3	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top en Ended , 3 Cement 15.	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ ripping ubricate Rig Repair Rig 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:30 14:30 15:30 16:15 18:15	4 1/2 1/4 <b>50MMARY F</b> 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15 18:15 19:00	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools COR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.50 5.00 1.00 0.75 2.00 0.75	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH POOH , Ru PUMP 0.5m	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste n in Hole Ope 3 Water, 5m3	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top en Ended , 3 Cement 15.	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Silp/Cut Line 24 HOUR S From 0:00 0:30 1:30 2:00 5:00 9:00 9:00 9:30 14:30 15:30 16:15 18:15	4 1/2 1/4 <b>To</b> 0:30 1:30 2:00 9:00 9:30 14:30 15:30 16:15 18:15 19:00 0:00	NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools COR THE DA Duration 0.50 1.00 0.50 3.00 4.00 0.50 5.00 1.00 0.50 5.00 1.00 0.75 2.00 0.75	NTE : POOH, Cha Nipple up E RIH From 2 Fill Tanks , Wait on Wa RIH From 0 Mix , PUMF Drill Blind F POOH, RIH POOH , Ru PUMP 0.5m	Weld on Bowl BOP Drill Wait on Water Total Hrs Novembe ange Hamme Diverter,, Rig i 20 to 65-m, R Mix and conc ater Truck 65 to 89-m, S P, SPOT Hi V From 89 To 92 I with air syste n in Hole Ope 3 Water, 5m3	24 r 25, 2005 r fro Tri-cone n Flowline tig Service dition Mud , B Safety Meetin /IS PILLS 2-m , No Retu em to find top en Ended , 3 Cement 15.	Act Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 Ev reak Circ. @6 g	5 mtrsLc	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)

DEPTH 24:00: 132.0 OPER 06:00: Wait on Orde DAILY COST: CUM COST: FORMATION: BIT PERFOI Bit No. 1 Size (mm) 219 Mfg. Mission Type Hammer Serial # B98290 Nozzles Open From (mKB) 95 To (mKB) 133 Hrs on Bit 11 1/4 WOB (daN) 2 RPM 40 Condition Good Pulled For? Water Meters m/hr Cum Hrs BOTTOMHOLE ASSEME No. Item N 1 Bit 2 STAB 3 BHA Length: H Avail WOB: Jt BHA Length: H Avail WOB: Jt Drill Actual 6 1/2 La Reaming Coring C Rm Rathole C Cond / Circ Tripping 5 3/4 Tr Lubricate Rig 1/2 D Bip/Cut Line H 2 HOUR SUMMARY FO	cane #2 (W	/hip #1)			REPORT #:	5	DATE:	Novem	ber 27, 2005	
DAILY COST:           CUM COST:           FORMATION:           BIT PERFO           Bit No.         1           Size (mm)         219           Mfg.         Mission           Type         Hammer           Serial #         B98290           Nozzles         Open           From (mKB)         95           To (mKB)         133           Hrs on Bit         11 1/4           WOB (daN)         2           RPM         40           Condition         Good           Pulled For?         Water           Meters         M           m/hr         Cum Hrs         Jt           BOTTOMHOLE ASSEME         Avail WOB:         Jt           2         STAB         3           BHA Length:         H         Avail WOB:         Jt           Jts DP in hole:         16         D           Drill Actual         6 1/2         L           Reaming         C         R           Coring         To         S           Slip/Cut Line         N         To           Slip/Cut Line         M         M           Q <td>32.0 m</td> <td>PROGRESS</td> <td>132</td> <td>.0 m</td> <td>Last 24 Hr Rot</td> <td></td> <td>6.50 hr</td> <td>Ave ROF</td> <td></td>	32.0 m	PROGRESS	132	.0 m	Last 24 Hr Rot		6.50 hr	Ave ROF		
DAILY COST:           EQUM COST:           FORMATION:           BIT PERFO           Bit No.         1           Size (mm)         219           Mig.         Mission           Type         Hammer           Serial #         B98290           Nozzles         Open           From (mKB)         95           To (mKB)         133           Hrs on Bit         11 1/4           WOB (daN)         2           RPM         40           Condition         Good           Pulled For?         Water           Meters         M           m/hr         Litern         N           Cum Hrs         Bit         2           STAB           3         BH         D           BH Length:         H           Avail WOB:         Jt           Jts DP in hole:         16         D           Drill Actual         6 1/2         Li           Reaming         C         R           Coring         5 3/4         T           Repair Rig         D         D <th <="" cols<="" td=""><td></td><td></td><td>-</td><td>-</td><td>FOREMAN:</td><td></td><td>Targett</td><td>MOBILE NO .:</td><td>709-689-4601</td></th>	<td></td> <td></td> <td>-</td> <td>-</td> <td>FOREMAN:</td> <td></td> <td>Targett</td> <td>MOBILE NO .:</td> <td>709-689-4601</td>			-	-	FOREMAN:		Targett	MOBILE NO .:	709-689-4601
BIT PERFO           BIT PERFO           BIT PERFO           Bit No.         1           Size (mm)         219           Wig.         Mission           Type         Hammer           Serial #         B98290           Nozzles         Open           From (mKB)         95           To (mKB)         133           Hrs on Bit         11 1/4           WOB (daN)         2           RPM         40           Condition         Good           Pulled For?         Water           Meters         M           n/hr         Z         STAB           Cum Hrs         Jt           BottomHole:         If         D           Avail WOB:         Jt         Jt           Avail WOB:         Jt         Jt           Drill Actual         6 1/2         L           Reaming         C         S           Coring         To         S           Coring         5 3/4         To           Repair Rig         D         D           Stip/Cut Line         W         D           Co		HOLE CND .:	Go	od	WEATHER:		lear	TOOLPUSH:	Tom Targett	
BIT PERFO           Bit No.         1           Size (mm)         219           Mfg.         Mission           Type         Hammer           Serial #         B98290           Nozzles         Open           From (mKB)         95           To (mKB)         133           Hrs on Bit         11 1/4           WOB (daN)         2           RPM         40           Condition         Good           Pulled For?         Water           Meters         Mit           m/hr         Cum Hrs           BOTTOMHOLE ASSEME         Mit           Avail WOB:         Jt           Jts DP in hole:         16           D         DILLING OPERATIONS           RR athole         N           Coring         C           Remaing         C           Coring         S           Silp/Cut Line         N           Dill Actual         6 1/2           Repair Rig         D           Silp/Cut Line         N           Dilloitoa         10:00           10:00         10:30           10:45         12:30		RIG / RIG #:	Ingersoll F	and RD10	TEMP.:		2°C	T.P. MOBILE:	709-649-4957	
BIT PERFO           Bit No.         1           Size (mm)         219           Mig.         Mission           Type         Hammer           Serial #         B98290           Nozzles         Open           From (mKB)         95           To (mKB)         133           Hrs on Bit         11 1/4           WOB (daN)         2           RPM         40           Condition         Good           Pulled For?         Water           Meters         M/r           Cum Hrs         Bit           BOTTOMHOLE ASSEME         M           No.         Item           1         Bit           2         STAB           3         BHA Length:           HAvail WOB:         Jt           Jts DP in hole:         16           D         DILLING OPERATIONS           Ru / TO         S           Drill Actual         6 1/2           Reaming         C           Coring         C           Repair Rig         D           Stip/Cut Line         M           Di0:00         10:30		K.B. ELEV.:		3 m	ROADS:		ood	T.T. WODIEL.	100 040 4001	
Bit No.       1         Size (mm)       219         Mfg.       Mission         Type       Hammer         Serial #       B98290         Nozzles       Open         From (mKB)       95         To (mKB)       133         Hrs on Bit       11 1/4         WOB (daN)       2         RPM       40         Condition       Good         Pulled For?       Water         Meters       M/r         Cum Hrs       Bit         2       STAB         3					110/1201					
Bit No.       1         Size (mm)       219         Mfg.       Mission         Type       Hammer         Serial #       B98290         Nozzles       Open         From (mKB)       95         To (mKB)       133         Hrs on Bit       11 1/4         WOB (daN)       2         RPM       40         Condition       Good         Pulled For?       Water         Meters       M/r         Cum Hrs       Bit         2       STAB         3			SUP	VEYS		IG FLUID		PUMP	2	
Size (mm)     219       Mfg.     Mission       Type     Hammer       Serial #     B98290       Nozzles     Open       From (mKB)     95       To (mKB)     133       Hrs on Bit     11 1/4       WOB (daN)     2       RPM     40       Condition     Good       Pulled For?     Water       Meters     Mathematical State       m/hr     Litern       Cum Hrs     Bit       2     STAB       3     BHA Length:       Avail WOB:     Jats DP in hole:       To     6 1/2       Reaming     C       Coring     C       Rm Rathole     N       Cond / Circ     N       Tripping     5 3/4       Silp/Cut Line     H       24 HOUR SUMARY FO       From     To       0:00     9:30       10:30     10:45       10:30     10:30       10:30     10:45       10:30     10:45       10:30     10:30       10:30     10:45       10:30     10:45       10:30     10:45       11/2     D       Silp/Cut Line     H	ORMANCE		19 m	0.25 °	Time		Pump No.	1	5	
Mfg.       Mission         Type       Hammer         Serial #       B98290         Nozzles       Open         From (mKB)       95         To (mKB)       133         Hrs on Bit       11 1/4         WOB (daN)       2         RPM       40         Condition       Good         Pulled For?       Water         Meters       M/r         Cum Hrs       Bit         2       STAB         3       BHA Length:         Avail WOB:       Jt         Jts DP in hole:       16         Drill Actual       6 1/2         Rm Rathole       N         Coring       C         Repair Rig       D         Silp/Cut Line       H         230       10:00         10:30       10:45         10:30       10:30         10:30       10:45         10:30       10:45         11:30       14:30         12:30       13:30         14:30       15:15         15:15       19:00			10 111	0.20	Depth(m)		Make	Gardner D	enver	
Type         Hammer           Serial #         B98290           Nozzles         Open           From (mKB)         95           To (mKB)         133           Hrs on Bit         11 1/4           WOB (daN)         2           RPM         40           Condition         Good           Pulled For?         Water           Meters         Water           m/hr         Cum Hrs           BOTTOMHOLE ASSEME         No.           RDM         Item           Avail WOB:         Jt           Jts DP in hole:         16           Drill Actual         6 1/2           Rem Rathole         N           Cond / Circ         N           Tripping         5 3/4           Silp/Cut Line         H           230         10:00           10:30         10:45           10:30         10:30           10:30         10:45           10:30         10:45           10:30         10:30           10:30         10:45           10:30         10:45           10:30         10:45           10:45         <					Density	Air	Model	PY-7		
Serial #         B98290           Nozzles         Open           From (mKB)         95           To (mKB)         133           Hrs on Bit         11 1/4           WOB (daN)         2           RPM         40           Condition         Good           Pulled For?         Water           Meters         M/r           Mhr         Uater           Meters         M/r           Cum Hrs         B           BOTTOMHOLE ASSEME         M           Avail WOB:         Jt           Jt         Bit           2         STAB           3         B           BHA Length:         H           Avail WOB:         Jt           Jts DP in hole:         16         D           Drill Actual         6 1/2         Lt           Reaming         C         R           Coring         C         N           Coring         C         N           Coring         5 3/4         T           Repair Rig         D         N           Silp/Cut Line         H         24           24 HOUR SUMARY FO					Mud Grad	7.11	Liner X Stk	6"		
Nozzles         Open           From (mKB)         95           To (mKB)         133           Hrs on Bit         11 1/4           WOB (daN)         2           RPM         40           Condition         Good           Pulled For?         Water           Meters         Mater           m/hr         Kater           Cum Hrs         Bit           2         STAB           3         J           BHA Length:         H           Avail WOB:         Jt           Jts DP in hole:         16           Drill Actual         6 1/2           Rearning         C           Coring         C           Rr Athole         N           Cond (Circ         N           Tripping         5 3/4         T           Silp/Cut Line         H           24 HOUR SUMARY FO         From           From         To           0:00         9:30           10:00         10:30           10:30         10:45           12:30         13:30           14:30         15:15           15:15         19					Vis		SPM	40		
From (mKB)       95         To (mKB)       133         Hrs on Bit       11 1/4         WOB (daN)       2         RPM       40         Condition       Good         Pulled For?       Water         Meters       M/r         Cum Hrs       Mater         BOTTOMHOLE ASSEME       Mater         No.       Item         1       Bit         2       STAB         3       B         BHA Length:       H         Avail WOB:       Jt         Drill Actual       6 1/2       Lt         Reaming       C       S         Coring       C       N         Rripping       5 3/4       T         Lubricate Rig       1/2       D         Silp/Cut Line       H       D         24 HOUR SUMMARY FO       From       To         0:00       9:30       10:00         10:30       10:45       12:30         10:45       12:30       13:30         11:30       14:30       15:15         15:15       19:00       19:00					PV		Pump Eff.	95%		
To (mKB)       133         Hrs on Bit       11 1/4         WOB (daN)       2         RPM       40         Condition       Good         Pulled For?       Water         Meters       M/r         Cum Hrs       Bit         2       STAB         3       BIA         BHA Length:       H         Avail WOB:       Jt         Jts DP in hole:       16       D         DRILLING OPERATIONS       R         RU / TO       S       S         Drill Actual       6 1/2       L         Reaming       C       R         Coring       C       R         Repair Rig       1/2       D         Slip/Cut Line       H       H         24 HOUR SUMMARY FO       Fo       P         From       To       O       0.00         10:30       10:45       12:30       13:30         10:45       12:30       13:30       14:30         11:30       14:30       15:15       19:00         19:00       19:15       19:00       19:15					YP		Pump Rate	0.39		
Hrs on Bit       11 1/4         WOB (daN)       2         RPM       40         Condition       Good         Pulled For?       Water         Meters       M/r         Cum Hrs       Bit         2       STAB         3       BHA Length:         Avail WOB:       Jt         Jts DP in hole:       16         Drill Actual       6 1/2       Lt         Rearning       C       R         Coring       C       C         Rt Abrole       N       N         Drill Actual       6 1/2       Lt         Rearning       S       C         Coring       C       C         Rm Rathole       N       N         Lubricate Rig       1/2       D         Slip/Cut Line       H       H         24 HOUR SUMMARY FO       Fo       D         From       To       O       0.00         10:30       10:45       12:30       13:30         10:45       12:30       13:30       14:30         12:30       13:30       14:30       15:15         19:00       19:15       <					Gels		Pump Press.	0.00		
WOB (daN)       2         RPM       40         Condition       Good         Pulled For?       Water         Meters       Water         Meters       Min         Cum Hrs       Bit         2       STAB         3       BHA Length:         Avail WOB:       Jt         Jts DP in hole:       16         Drill Actual       6 1/2       Lt         Reaming       C         Coring       C       R         Coring       C       R         Reaming       5 3/4       T         Coring       Jt/2       D         Repair Rig       1/2       D         Slip/Cut Line       H       H         24 HOUR SUMMARY FO       Fo       D         From       To       0       0         10:00       10:30       10:45       12:30         10:45       12:30       13:30       14:30         11:30       14:30       15:15       19:00					рH		Drillpipe AV			
RPM         40           Condition         Good           Pulled For?         Water           Meters         Water           BOTTOMHOLE ASSEME         No.           No.         Item           No.         Item           1         Bit           2         STAB           3         BHA Length:           Avail WOB:         Jt           Jts DP in hole:         16         D           DRILLING OPERATIONS         R           RU / TO         S         S           Drill Actual         6 1/2         L           Reaming         C         R           Coring         S         C           Rm Rathole         W         N           Coring         5 3/4         T           Lubricate Rig         1/2         D           Slip/Cut Line         H         24 HOUR SUMMARY FO           From         To         0           0:00         9:30         10:00           10:30         10:45         12:30           12:30         13:30         14:30           12:30         13:30         14:30           14:30 <td></td> <td></td> <td></td> <td></td> <td>' WL (cc's)</td> <td></td> <td>Drillcollar AV</td> <td></td> <td></td>					' WL (cc's)		Drillcollar AV			
Pulled For?         Water           Meters         m/hr           Cum Hrs         Item           BOTTOMHOLE ASSEME           No.         Item           1         Bit           2         STAB           3         Item           BHA Length:         H           Avail WOB:         Jt           Its DP in hole:         16         D           DRILLING OPERATIONS         R           RU / TO         S         S           Orill Actual         6 1/2         L           Reaming         C         R           Coring         K         V           Coring         1/2         M           Reaming         C         R           Cond / Circ         N         M           Chipping         5 3/4         T           Subricate Rig         1/2         D           Repair Rig         D         D           Silp/Cut Line         H         E           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:30         10:45         12:30           10:45					Filter Cake		Nozzle Vel			
Meters         Meters           m/hr         Item         N           BOTTOMHOLE ASSEME         No.         Item         N           1         Bit         Item         N           2         STAB         Item         N           3         Item         N         Item         N           BHA Length:         H         H         Avail WOB:         Jt         Jt           Jts DP in hole:         16         D         D         D         DIILLING OPERATIONS         S           RU / TO         6         1/2         Ld         R         R           Coring         6         1/2         Ld         R         R           Coring         5         3/4         T         Lubricate Rig         1/2         D           Reaming         1/2         M         D         S         D         S         D         S         D         S         D         S         D         S         D         S         D         S         D         S         D         S         D         S         D         S         D         S         D         S         D         S         S					Sand (%)					
n/hr         Item         No.         Item         N           BOTTOMHOLE ASSEME         No.         Item         N           1         Bit         Item         N           2         STAB         Item         N           3         Item         N         Item         N           3         STAB         Item         N         Item         N           Avail WOB:         Item         Item         S         D         Item         S           DTILLING OPERATIONS         R         R         R         R         R         R           Reaming         6 1/2         Item         N         N         N         R           Coring         R         R         N         N         N         N           Catholic Circ         N         N         N         N         N           Coring         12         N					Solids (%)		М	UD & CHEM	/ICALS	
Cum Hrs         Item         No.         Item         N           1         Bit         2         STAB         3           2         STAB         3         3         3           BHA Length:         H         Avail WOB:         Jt         Jt           Jts DP in hole:         16         D         D         D           DRILLING OPERATIONS         R         R         C         R           Coring         6         1/2         L         R           Reaming         6         1/2         L         R           Coring         5         3/4         T         L           Reaming         1/2         N         N         C           Coring         5         3/4         T         L           Coring         5         3/4         T         L           Reaming         1/2         N         N         N           Coring         5         3/4         T         L           Repair Rig         D         N         N         N           Slip/Cut Line         H         10:30         10:30         10:45           10:30         10:45 </td <td></td> <td></td> <td></td> <td></td> <td>Oil (%)</td> <td></td> <td>Mud Cycle</td> <td>90</td> <td>min</td>					Oil (%)		Mud Cycle	90	min	
1         Bit           2         STAB           3         BHA Length:         H           Avail WOB:         Jt           Jts DP in hole:         16         D           DRILLING OPERATIONS         R           RU / TO         S           Dril Actual         6 1/2         Ld           Reaming         C         R           Coring         S         C           Rm Rathole         W         N           Cond / Circ         N         T           Lubricate Rig         1/2         D           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:30         10:45         12:30           10:30         10:45         12:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         19:15					Pf/Mf		Bottoms Up	13	min	
No.         Item         N           1         Bit         2         STAB           2         STAB         3         3           BHA Length:         H         Avail WOB:         Jt           Jts DP in hole:         16         D           DRILLING OPERATIONS         R         S           RU / TO         S         S           Drill Actual         6 1/2         L           Reaming         C         R           Coring         S         V           Cond / Circ         N         C           Tripping         5 3/4         T           Lubricate Rig         1/2         D           Repair Rig         D         D           Slip/Cut Line         H         E           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:30         10:45         12:30           10:30         10:45         12:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         19:00					MBT		Tanks	30	m3	
No.         Item         N           1         Bit         2         STAB           2         STAB         3         3           BHA Length:         H         Avail WOB:         Jt           Jts DP in hole:         16         D           DRILLING OPERATIONS         R         S           RU / TO         S         S           Drill Actual         6 1/2         L           Reaming         C         R           Coring         S         V           Cond / Circ         N         C           Tripping         5 3/4         T           Lubricate Rig         1/2         D           Repair Rig         D         D           Slip/Cut Line         H         E           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:30         10:45         12:30           10:30         10:45         12:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         19:00					CI (ppm)		Hole Volume	5	m3	
No.         Item         N           1         Bit         2         STAB           2         STAB         3         3           BHA Length:         H         Avail WOB:         Jt           Jts DP in hole:         16         D           DRILLING OPERATIONS         R         S           RU / TO         S         S           Drill Actual         6 1/2         L           Reaming         C         R           Coring         S         V           Cond / Circ         N         C           Tripping         5 3/4         T           Lubricate Rig         1/2         D           Repair Rig         D         D           Slip/Cut Line         H         E           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:30         10:45         12:30           10:30         10:45         12:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         19:00	MBLY				Ca (ppm)		System Vol.	35	m3	
2         STAB           3         3           BHA Length:         H           Avail WOB:         Jt           Jts DP in hole:         16         D           DRILLING OPERATIONS         R           RU / TO         6 1/2         L           Reaming         6 1/2         L           Coring         C         R           Coring         5 3/4         T           Lubricate Rig         1/2         D           Slip/Cut Line         HOUR SUMMARY FO         From           From         To         0:00           9:30         10:00         10:30           10:45         12:30         13:30           12:30         13:30         14:30           14:30         15:15         19:00	Max OD	Min ID	Connection S	Size & Type			-	1		
3       3         3HA Length:       H         Avail WOB:       Jt         Its DP in hole:       16       D         DRILLING OPERATIONS       S         Coring       6       1/2         Reaming       6       1/2       L         Coring       C       R         Coring       C       N         Cond / Circ       N       N         Cond / Circ       N       N         Lubricate Rig       1/2       D         Slip/Cut Line       H       D         24 HOUR SUMMARY FO       From       To         0:00       9:30       10:00         10:30       10:45       12:30         10:30       10:45       12:30         10:45       12:30       13:30         14:30       15:15       19:00         19:00       19:15       10:15							Mud & Chemi	cals Added:		
BHA Length:         H           Avail WOB:         Jt           Jts DP in hole:         16         D           DRILLING OPERATIONS         S           RU / TO         6 1/2         L           Reaming         C         R           Coring         C         R           Coring         C         N           Cond / Circ         N         N           Lubricate Rig         1/2         D           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         From         TO           0:00         9:30         10:00           10:30         10:45         12:30           10:45         12:30         13:30           14:30         15:15         19:00           19:00         19:15         19:00					Mud Co.					
Avail WOB:         Jr.           Jts DP in hole:         16         D           DRILLING OPERATIONS         S           DRILLING OPERATIONS         S           Drill Actual         6 1/2         Lu           Reaming         C         R           Coring         C         R           Coring         C         N           Cond / Circ         N         N           Lubricate Rig         1/2         D           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:00         10:30         10:45           10:45         12:30         13:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         19:00					Mud Man					
Jts DP in hole:         16         D           DRILLING OPERATIONS         S           RU / TO         6 1/2         K           Reaming         6 1/2         K           Coring         C         R           Coring         C         R           Coring         C         R           Cond / Circ         N         N           Cond / Circ         N         N           Lubricate Rig         1/2         D           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:00         10:30         10:45           10:45         12:30         13:30           11:30         14:30         14:30           14:30         15:15         19:00           19:00         19:15         10:45	Hook Load:		DP size		Mud Up @					
Corrig         S           RU / TO         6 1/2         Id           RU / TO         6 1/2         Id           Reaming         6 1/2         Id           Reaming         6 1/2         Id           Coring         C         R           Coring         C         N           Cond / Circ         N         N           Cond / Circ         N         N           Lubricate Rig         1/2         D           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:30         10:45         12:30           10:30         10:45         12:30           11:30         14:30         15:15           15:15         19:00         19:00	Jts DP Racks		DC Conn:							
Action         Correspondence         Second Correspond	DP on Loc:	152	DP Conn:		VOLUMES	M <sup>3</sup>				
RU / TO         S           Drill Actual         6 1/2         La           Reaming         C           Coring         C           Rom Rathole         W           Cond / Circ         N           Tripping         5 3/4           Tripping         5 3/4           Bapair Rig         D           Slip/Cut Line         H           24 HOUR SUMMARY FO           From         To           0:00         9:30           9:30         10:00           10:30         10:45           10:45         12:30           12:30         13:30           14:30         15:15           15:15         19:00           19:00         19:15					Water added		Mud Daily Cos	st		
Drill Actual         6 1/2         La           Reaming         R           Coring         C           Rm Rathole         W           Cond / Circ         N           Tripping         5 3/4         T           Lubricate Rig         1/2         D           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:30         10:45         12:30           10:45         12:30         13:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         10:00	Survey		Plug Back		Losses		Mud Cum Cos			
Reaming         R           Coring         C           Coring         C           Rm Rathole         W           Cond / Circ         N           Tripping         5 3/4         T           Lubricate Rig         1/2         D           Repair Rig         D         D           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:00         10:30         10:45           10:45         12:30         12:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         10:15	Logging		Fishing		WELL CON	TROL	SOLIDS CO			
Coring         C           Rm Rathole         W           Cond / Circ         N           Tripping         5 3/4         T           Lubricate Rig         1/2         D           Repair Rig         D         H           24 HOUR SUMMARY FO         H         H           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:00         10:30         10:45           10:45         12:30         13:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         19:15	Run Casing		Work w/Pason		RSPP		Shaker Make	1	FSI	
Rm Rathole         W           Cond / Circ         N           Tripping         5 3/4         T           Lubricate Rig         1/2         D           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         H         H           7000         9:30         10:00           10:00         10:30         10:45           10:45         12:30         13:30           13:30         14:30         15:15           15:15         19:00         19:15	Cementing		Work Pipe		ST/Min		Shaker Mesh			
Tripping         5 3/4         T.           Lubricate Rig         1/2         D           Repair Rig         D         H           24 HOUR SUMMARY FO         H           0:00         9:30         10:00           10:00         10:30         10:45           10:45         12:30         13:30           12:30         13:30         14:30           14:30         15:15         19:00           19:00         19:15         10:15	woc	11 1/4	Mix LCM		MACP(kPa)			Desilter	Centrifuge	
Lubricate Rig         1/2         D           Repair Rig         D         H           Slip/Cut Line         H         H           24 HOUR SUMMARY FO         From         To           0:00         9:30         10:00           10:30         10:45         10:30           10:45         12:30         13:30           13:30         14:30         14:30           14:30         15:15         19:00           19:00         19:15         10:00	NU BOP's		Safety meet		Calc Hole Fill		Vol UF (l/min)			
Repair Rig         D           Slip/Cut Line         H           24 HOUR SUMMARY FO           From         To           0:00         9:30           9:30         10:00           10:30         10:45           10:45         12:30           12:30         13:30           14:30         15:15           15:15         19:00           19:00         19:15	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)			
Repair Rig         D           Slip/Cut Line         H           24 HOUR SUMMARY FO           From         To           0:00         9:30           9:30         10:00           10:30         10:45           10:45         12:30           12:30         13:30           14:30         15:15           15:15         19:00           19:00         19:15	Drill Out Cmt		BOP Drill		Lst BOP Drill:		O.F. (kg/m3)			
Slip/Cut Line         H           24 HOUR SUMMARY FO           From         To           0:00         9:30           9:30         10:00           10:00         10:30           10:30         10:45           10:45         12:30           12:30         13:30           14:30         15:15           15:15         19:00           19:00         19:15	DST		Wait on Daylight		Calc Hole Fill		Hours/Days			
From         To           0:00         9:30           9:30         10:00           10:00         10:30           10:30         10:45           10:45         12:30           12:30         13:30           13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15	Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:	•	(to 24:00)	
From         To           0:00         9:30           9:30         10:00           10:00         10:30           10:30         10:45           10:45         12:30           12:30         13:30           13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15		ATE :		r 26, 2005	(0000 hrs -	2400 hrs)				
0:00         9:30           9:30         10:00           10:00         10:30           10:30         10:45           10:45         12:30           12:30         13:30           13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15	Duration		110101100	0, _000		vent				
9:30         10:00           10:00         10:30           10:30         10:45           10:45         12:30           12:30         13:30           13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15	9.50	Wait on Ce	ment							
10:00         10:30           10:30         10:45           10:45         12:30           12:30         13:30           13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15	0.50		Cement @ 80	mtrs						
10:30         10:45           10:45         12:30           12:30         13:30           13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15	0.50		Down Bit and		Run in Hole C	pen Ended				
10:45         12:30           12:30         13:30           13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15	0.25	Rig Service		- 1 -						
12:30         13:30           13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15	1.75	Wait on Ce								
13:30         14:30           14:30         15:15           15:15         19:00           19:00         19:15	1.00		ake up Bit, Sta	ab , RIH ,Inst	all Diverter a	n Flowline				
14:30         15:15           15:15         19:00           19:00         19:15	1.00		ement From 8							
19:00 19:15	0.75		n Hole from 92							
19:00 19:15	3.75	POOH,Ren	nove Diverter,	Flowline,Lay	Down Bit,Ma	ake up Ham	nmer, Install I	Diverter,Flov	wline,Air	
			LineRotating I							
19:15 0:00	0.25	Rig Service	, Function Di	verter		-				
	4.75	Drill 219mn	n Hole From 9	95 to 133mtrs	6					
24 HOUR Forcast :										

DEPTH 24:00: OPER 06:00: DAILY COST: CUM COST: FORMATION: Bit No. Size (mm) Mfg. Type Serial # Nozzles From (mKB) Hrs on Bit WOB (daN) RPM Condition	Drill at 170 BIT PERF 2 216 Varel ET0537 13654 OPEN 133	).0 m	PROGRESS: HOLE CND.: RIG / RIG #: K.B. ELEV.:	Go Ingersoll R 3.3	0 m bod Rand RD10 3 m	REPORT #: Last 24 Hr Rot FOREMAN: WEATHER: TEMP.: ROADS:	Tom C	DATE: 14.00 hr Targett lear 2°C ood	Ave ROF MOBILE NO.: TOOLPUSH: T.P. MOBILE:	ber 28, 2005 2.0 m/hr 709-689-4601 Tom Targett 709-649-4957
OPER 06:00: DAILY COST: CUM COST: FORMATION: Bit No. Size (mm) Mfg. Type Serial # Nozzles From (mKB) Hrs on Bit WOB (daN) RPM Condition	Drill at 170 BIT PERF 2 216 Varel ET0537 13654 OPEN 133	m	HOLE CND.: RIG / RIG #:	Go Ingersoll R 3.3	ood Rand RD10	FOREMAN: WEATHER: TEMP.:	Tom C	Targett lear 2°C	MOBILE NO.: TOOLPUSH:	709-689-4601 Tom Targett
DAILY COST: CUM COST: FORMATION: Bit No. Size (mm) Mfg. Type Serial # Nozzles From (mKB) Hrs on Bit WOB (daN) RPM Condition	BIT PERF 2 216 Varel ET0537 13654 OPEN 133		RIG / RIG #:	Ingersoll R 3.3	and RD10	WEATHER: TEMP.:	C -2	lear 2°C	TOOLPUSH:	Tom Targett
FORMATION: Bit No. Size (mm) Mfg. Type Serial # Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	2 216 Varel ET0537 13654 OPEN 133	ORMANCE		3.3 SUR					T.P. MOBILE:	
FORMATION: Bit No. Size (mm) Mfg. Type Serial # Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	2 216 Varel ET0537 13654 OPEN 133	ORMANCE		3.3 SUR						
Size (mm) Mfg. Type Serial # Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	2 216 Varel ET0537 13654 OPEN 133	ORMANCE					0	JUU		
Size (mm) Mfg. Type Serial # Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	2 216 Varel ET0537 13654 OPEN 133	ORMANCE							<u>.</u>	
Size (mm) Mfg. Type Serial # Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	216 Varel ET0537 13654 OPEN 133			4.0	VEYS	DRILLIN	G FLUID		PUMPS	3
Mfg. Type Serial # Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	Varel ET0537 13654 OPEN 133			19 m	0.25 °	Time		Pump No.	1	
Type Serial # Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	ET0537 13654 OPEN 133		1			Depth(m)	I	Make	Gardner De	enver
Serial # Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	13654 OPEN 133					Density	Water	Model	PY-7	
Nozzles From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	OPEN 133	1				Mud Grad	1	Liner X Stk	6"	
From (mKB) To (mKB) Hrs on Bit WOB (daN) RPM Condition	133					Vis	1	SPM	40	
To (mKB) Hrs on Bit WOB (daN) RPM Condition						PV	1	Pump Eff.	95%	
Hrs on Bit WOB (daN) RPM Condition						YP	I	Pump Rate	0.39	
WOB (daN) RPM Condition	160 13 1/2					Gels	1	Pump Press.	50	
RPM Condition	2					pH	1	Drillpipe AV		
Condition	2 80					WL (cc's) Filter Cake	I	Drillcollar AV Nozzle Vel		
	00					Sand (%)	I	NOZZIE VEI		
Pulled For?						Solids (%)	I	M	UD & CHEN	<b>MICALS</b>
Meters						Oil (%)		Mud Cycle	79	min
m/hr						Pf/Mf	I	Bottoms Up	15	min
Cum Hrs						MBT	I	Tanks	25	m3
						CI (ppm)		Hole Volume	6	m3
BOTTOM	IOLE ASSE	MBLY				Ca (ppm)	I	System Vol.	31	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type		I			
1	Bit						1	Mud & Chemic	cals Added:	
2	STAB					Mud Co.	I	Sawdust 10		
3					1	Mud Man	I	LCM 12		
BHA Length:	3.88	Hook Load:	4,000	DP size		Mud Up @	I			
Avail WOB:		Jts DP Racks	132	DC Conn:			M <sup>3</sup>	-		
Jts DP in hole:	20	DP on Loc:	152	DP Conn:		VOLUMES	M			
	OPERATIO	NS TIME BR	EAKDOWN	<u>i</u>	1	Water added	I	Mud Daily Cos		
RU / TO		Survey		Plug Back		Losses	L	Mud Cum Cos		
Drill Actual	14	Logging		Fishing		WELL CON	TROL	SOLIDS CO	ONTROL	
Reaming		Run Casing		Work w/Pason		RSPP	1	Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min	1	Shaker Mesh		0.17
Rm Rathole		WOC NU BOP's		Mix LCM		MACP(kPa) Calc Hole Fill	1		Desilter	Centrifuge
Cond / Circ	2 3/4	Test BOP's		Safety meet Weld on Bowl		Calc Hole Fill	I	Vol UF (l/min) U.F. (kg/m3)		
Tripping Lubricate Rig	1/4	Drill Out Cmt		BOP Drill		Lst BOP Drill:	I	O.F. (kg/m3) O.F. (kg/m3)		
Repair Rig	., .	DST		WoOrders / Water	7	Calc Hole Fill	1	Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill	1	Boiler Hrs:	<u> </u>	(to 24:00)
•	SUMMARY					(0000 hrs - :	2400 brc)			(10 2 1100)
From	To	Duration	<b>\ ∟</b> .	NOVEITIDE	r 27, 2005		2400 nrs) vent			
0:00	1:30	1.50	Drill 219mn	n Hole From 1	32 To 133m					
1:30	3:00	1.50		pple Down Ro			Lay Down /	Air Hammer		
3:00	8:30	5.50	Wait on Or		<u> </u>	,-	`			
8:30	9:45	1.25	Make up Bi	it,Stabilizer, F	RIH , Nipple u	up Diverter ar	nd Flowline			
9:45	13:00	3.25	Drill 216mn	n Hole From 1	33 to 143mt					
13:00	14:30	1.50		ater Truck , Ri		-				
14:30	23:45	9.25		Hol From 14		8				
23:45	0:00	0.25	Rig Service	e, Function Di	verter					
	-			-						
24 HOUR	Forcast :		<u> </u>							
24 HOUR	Forcast :						<u> </u>			

	ne: Hurric	<u>ane</u> #2 (W	hip #1)			REPORT #:	7	DATE:	Novem	ber 29, 2005
DEPTH 24:00:	189	0.0 m	PROGRESS:	29.	0 m	Last 24 Hr Rota	ating Time:	14.50 hr	Ave ROF	
OPER 06:00:	Drilling @ 1	94				FOREMAN:	Tom	Targett	MOBILE NO .:	709-689-4601
DAILY COST:			HOLE CND .:	Go	bod	WEATHER:	CI	ear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	-3	3°C	T.P. MOBILE:	709-649-4957
FORMATION:			K.B. ELEV.:	3.3	3 m	ROADS:	Slip	pery		
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	IG FLUID		PUMPS	3
Bit No.	2			19 m	0.25 °	Time		Pump No.	1	
Size (mm)	216			171 m	2.00 °	Depth(m)		Make	Gardner D	enver
Mfg.	Varel					Density		Model	PY-7	
Туре	ET0537					Mud Grad		Liner X Stk	6"	
Serial #	13654					Vis		SPM	40	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	133					YP		Pump Rate	0.39	
To (mKB)	160					Gels		Pump Press.	50	
Hrs on Bit	27					pН		Drillpipe AV		
WOB (daN)	2					WL (cc's)		Drillcollar AV		
RPM	80					Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?						Solids (%)		М	UD & CHEN	<b>MICALS</b>
Meters						Oil (%)		Mud Cycle	95	min
m/hr						Pf/Mf		Bottoms Up	18	min
Cum Hrs						MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	7	m3
BOTTOMH	OLE ASSE	MBLY	<u></u>	11		Ca (ppm)		System Vol.	37	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	ou (pp)		cycloin voi:	0.	
1	Bit							Mud & Chemie	cals Added:	
2	STAB					Mud Co.		Quick Seal		
3	011.2					Mud Man			0	
BHA Length:	3.88	Hook Load:	<u></u>	DP size		Mud Up @			8	
Avail WOB:		Jts DP Racks		DC Conn:					-	
	24		152			VOLUMES	M <sup>3</sup>			
Jts DP in hole:		DP on Loc:		DP Conn:						
RU/TO			1/2	Plug Back		Water added Losses		Mud Daily Cos Mud Cum Cos		
	111/0	Survey	1/2	-						
Drill Actual	14 1/2	Logging		Fishing		WELL CON		SOLIDS CO		FSI
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make Shaker Mesh		F31
Coring				Work Pipe		ST/Min		Snaker Mesh	Desilter	Centrifuge
Dee Dethele		Cementing								
	2 1/4	WOC		Mix LCM	1/4	MACP(kPa)			Decimen	Ochanoge
Cond / Circ	3 1/4	WOC NU BOP's		Safety meet	1/4	Calc Hole Fill		Vol UF (I/min)	Doomor	Centinuge
Cond / Circ Tripping	5	WOC NU BOP's Test BOPs		Safety meet Weld on Bowl	1/4	Calc Hole Fill Act Hole Fill		U.F. (kg/m3)	Doomor	Centinuge
Rm Rathole Cond / Circ Tripping Lubricate Rig		WOC NU BOP's Test BOPs Drill Out Cmt		Safety meet	1/4	Calc Hole Fill Act Hole Fill Lst BOP Drill:		U.F. (kg/m3) O.F. (kg/m3)	Doomon	Continuego
Cond / Circ Tripping Lubricate Rig Repair Rig	5	WOC NU BOP's Test BOPs Drill Out Cmt DST		Safety meet Weld on Bowl BOP Drill		Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill		U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line	5 1/2	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools		Safety meet Weld on Bowl BOP Drill Total Hrs	24	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill		U.F. (kg/m3) O.F. (kg/m3)		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig <u>Slip/Cut Line</u> 24 HOUR S	5 1/2	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	\TE :	Safety meet Weld on Bowl BOP Drill Total Hrs		Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2		U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From	5 1/2 SUMMARY F To	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration		Safety meet Weld on Bowl BOP Drill Total Hrs Novembe	24 or 28, 2005	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs -	2400 hrs) vent	U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00	5 1/2 50MMARY F To 7:30	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50	Drill 216mn	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe	24 or 28, 2005	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs -		U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 7:30	5 1/2 3000000000000000000000000000000000000	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25	Drill 216mn Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe	24 er 28, 2005	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Events		U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45	5 1/2 3UMMARY F To 7:30 7:45 10:15	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50	Drill 216mn Rig Service Drill 216mn	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1	24 er 28, 2005 160 to 171mtr 171 to 179mtr	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev rs		U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15	5 1/2 3UMMARY F To 7:30 7:45 10:15 10:45	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50	Drill 216mn Rig Service Drill 216mn Circulate ar	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 nd Survey @	24 er 28, 2005 160 to 171mtr 171 to 179mtr 171mtrs , 2 E	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Frs Cogrees		U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45	5 1/2 3UMMARY F To 7:30 7:45 10:15 10:45 15:15	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools COR THE DA Duration 7.50 0.25 2.50 0.50 4.50	Drill 216mn Rig Service Drill 216mn Circulate an Drill 216mn	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1	24 er 28, 2005 160 to 171mtr 171 to 179mtr 171mtrs , 2 E	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Frs Cogrees		U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Cond / Circ Tripping Lubricate Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15	5 1/2 3UMMARY F To 7:30 7:45 10:15 10:45 15:15 15:30	WOC           NU BOP's           Test BOPs           Drill Out Cmt           DST           Hndle Tools             OR THE DA           Duration           7.50           0.25           2.50           0.50           4.50           0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate	Safety meet Weld on Bowl BOP Drill Total Hrs Novembee n Hole From 1 n Hole From 1 n hole from 17	24 er 28, 2005 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev rs Degrees	vent	U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15 15:30	5 1/2 3UMMARY F To 7:30 7:45 10:15 10:45 15:15 15:30 17:15	WOC           NU BOP's           Test BOPs           Drill Out Cmt           DST           Hndle Tools             OR THE DA           Duration           7.50           0.25           2.50           0.50           4.50           0.25           1.75	Drill 216mn Rig Service Drill 216mn Circulate an Drill 216mn Circulate POOH ,Nip	Safety meet Weld on Bowl BOP Drill Total Hrs Novembee n Hole From 1 n Hole From 1 n Hole from 1 n hole from 1 ple Down Div	24 er 28, 2005 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev rs Degrees	vent	U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump	Safety meet Weld on Bowl BOP Drill Total Hrs Novembee n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 er 28, 2005 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev rs Degrees	vent	U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25 0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembee n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig <b>24 HOUR S</b> <b>From</b> 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25 0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig <b>24 HOUR S</b> <b>From</b> 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25 0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig <b>24 HOUR S</b> <b>From</b> 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25 0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25 0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25 0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45 0:00	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25 0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)
Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30	5 1/2 <b>SUMMARY F</b> 7:30 7:45 10:15 10:45 15:15 15:30 17:15 20:30 20:45 0:00	WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 7.50 0.25 2.50 0.50 4.50 0.25 1.75 3.25 0.25	Drill 216mn Rig Service Drill 216mn Circulate ar Drill 216mn Circulate POOH ,Nip MIX ,Pump Rig Service	Safety meet Weld on Bowl BOP Drill Total Hrs Novembe n Hole From 1 n Hole From 1 n hole from 17 ple Down Div and Spot LC	24 160 to 171mtr 171 to 179mtr 171mtrs , 2 E 79 to 189mtrs rerter,Flowline M	Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 (0000 hrs - 2 Ev rs Degrees S e,Lay Down E	vent Bit and Stab.	U.F. (kg/m3) O.F. (kg/m3) <u>Hours/Days</u> Boiler Hrs:		(to 24:00)

Well Nan	ne: Hurric	ane #2 (W	'hip #1)			REPORT #:	8	DATE:	Novem	nber 30, 2005
DEPTH 24:00:		).0 m	PROGRESS	: 11.	0 m	Last 24 Hr Ro		11.50 hr	Ave ROP	
OPER 06:00:	Drilling @ 2	204				FOREMAN:		Targett	MOBILE NO .:	709-689-4601
DAILY COST:			HOLE CND.:	Go	bod	WEATHER:	С	lear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	1	l°C	T.P. MOBILE:	709-649-4957
ORMATION:			K.B. ELEV.:	0	3 m	ROADS:	G	ood		
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	IG FLUID		PUMP	S
Bit No.	2			19 m	0.25 °	Time	1200	Pump No.	1	
Size (mm)	216			171 m	2.00 °	Depth(m)		Make	Gardner D	enver
Mfg.	Varel					Density	1050	Model	PY-7	
Туре	ET0537					Mud Grad		Liner X Stk	6"	
Serial #	13654					Vis	40	SPM	40	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	133					YP		Pump Rate	0.39	
To (mKB)	200					Gels		Pump Press.	50	
Hrs on Bit	38 1/2					рН		Drillpipe AV		
WOB (daN)	2					WL (cc's)		Drillcollar AV		
RPM	80					Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?						Solids (%)		М	UD & CHEN	MICALS
Meters						Oil (%)		Mud Cycle	19	min
m/hr						Pf/Mf		Bottoms Up	19	min
Cum Hrs						мвт		Tanks		m3
						CI (ppm)		Hole Volume	7	m3
BOTTOMH	IOLE ASSEI	MBLY				Ca (ppm)		System Vol.	7	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1	Bit							Mud & Chemi	icals Added:	
2	STAB					Mud Co.		Gel 80		
3						Mud Man		Sawdust 20		
BHA Length:	3.88	Hook Load:		DP size		Mud Up @		Quick seal 3		
Avail WOB:		Jts DP Racks	75	DC Conn:						
Jts DP in hole:	25	DP on Loc:	152	DP Conn:		VOLUMES	M <sup>3</sup>			
	OPERATIO					Water added		Mud Daily Co	st	
RU / TO		Survey		Plug Back		Losses		Mud Cum Co		
Drill Actual	11 1/2	Logging		Fishing		WELL CON		SOLIDS C		
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		
Rm Rathole		WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ	8 3/4	NU BOP's		Safety meet		Calc Hole Fill		Vol UF (I/min)		Continugo
Tripping	3 1/4	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)	·	
Lubricate Rig	1/2	Drill Out Cmt		BOP Drill		Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST		501 51		Calc Hole Fill		Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
			TF .				0.400 (5	Beller Hie.		(10 24.00)
				Novembe	er 29, 2005	(0000 hrs -	,			
From 0:00	<b>To</b> 2:00	Duration 2.00	Dump and	Push Plug Fro	om 10 to 00-		vent			
2:00	10:00	2.00		Push Plug Fro n Hole From			IN IOSIIIIS			
	10:00	0.50		· Function Di		uə				
10:00			U			tro				
10:30 11:30	11:30 13:45	1.00 2.25		n Hole From httom , Mix Ge			al in Tonko			
					· ·		ailli i dilks			
13:45 15:30	15:30 18:45	1.75 3.25		n Hole From 1		12				
				\ Bring ,Bring کا Die Down Dirv		o Moko un F		ductor Ninal		r Flowling
18:45 22:00	22:00 0:00	3.25 2.00		up Gel,Sawc			IN CON	ααστοι , ινιρριθ		i,i⁻iuwiiiie
22.00	0.00	2.00		up Gei,Sawc		anks				
	-									
	-									
	-									
	Forecet -									
24 HOUR I	OICAST :									
Drill 216mn	n Hole									

DEPTH 24:00:	ne: Hurric	ane #2 (W	/hip #1)			REPORT #:	9	DATE:	Decer	nber 1, 2005
		).0 m	PROGRESS	20.	0 m	Last 24 Hr Rot	ating Time:	22.50 hr	Ave RO	o 0.9 m/hr
OPER 06:00:	Drilling @ 2	224m	4			FOREMAN:		Targett	MOBILE NO .:	709-689-4601
DAILY COST:	0		HOLE CND .:	Go	bod	WEATHER:	С	lear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	1	°C	T.P. MOBILE:	709-649-4957
FORMATION:			K.B. ELEV.:	<b>v</b>	3 m	ROADS:		ood		
		ORMANCE		SUR	VEYS	DRILLIN			PUMP	\$
Bit No.	2			19 m	0.25 °	Time	2400	Pump No.	1	5
Size (mm)	216			171 m	2.00 °	Depth(m)	220	Make	Gardner D	enver
Mfg.	Varel				2.00	Density	1030	Model	PY-7	
туре	ET0537					Mud Grad	1000	Liner X Stk	6"	
Serial #	13654					Vis	30	SPM	40	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	133					YP		Pump Rate	0.39	
To (mKB)	220					Gels		Pump Press.	50	
Hrs on Bit	61					pН		Drillpipe AV		
WOB (daN)	2					WL (cc's)		Drillcollar AV		
RPM	80					Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?						Solids (%)		М	UD & CHE	/ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						мвт		Tanks	30	m3
						CI (ppm)		Hole Volume		m3
воттомн	OLE ASSE	MBLY		11		Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection 3	Size & Type	()				
1	Bit							Mud & Chemi	cals Added:	
2	STAB					Mud Co.		Gel 29		
3						Mud Man		Sawdust 14		
BHA Length:	3.88	Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks	72	DC Conn:						
Jts DP in hole:	28	DP on Loc:	152	DP Conn:		VOLUMES	M <sup>3</sup>			
	OPERATIO					Water added		Mud Daily Cos	et	
RU / TO		Survey		Plug Back		Losses		Mud Cum Cos		
Drill Actual	22 1/2	Logging		Fishing		WELL CON		SOLIDS CO		
Reaming	22 1/2	Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		
Rm Rathole		WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ	1/2	NU BOP's		Safety meet		Calc Hole Fill		Vol UF (l/min)		g-
Tripping	1/2	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig	1/2	Drill Out Cmt		BOP Drill		Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST				Calc Hole Fill		Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
	SUMMARY F				er 30, 2005	(0000 hrs - 2	2400 brc)			(11)
From	To	Duration	·· • ·	Novembe	1 30, 2003	`	/ent			
0:00	0:15	0.25	Circulate @	80mtrs, Go	od Returns					
0:00	0:15	0.23		30 To 200mtrs		Push Plua				
0:45	1:00	0.25		200mtrs . G						
1:00	11:00	10.00		n Hole From 2		trs				
11:00	11:15	0.25	Rig Service							
11:15	23:45	12.50	0	n Hole From 2	207 To 220m	trs				
23:45	0:00	0.25	Rig Service							
24 HOUR F										

	ne: Hurric	ane #2 (W	/hip #1)			REPORT #:	10	DATE:	Decen	nber 2, 2005
DEPTH 24:00:	236	5.0 m	PROGRESS:	16.	.0 m	Last 24 Hr Rot	ating Time:	19.00 hr	Ave ROP	o.8 m/hr
OPER 06:00:	Drilling @ 2	242				FOREMAN:	Tom	Targett	MOBILE NO .:	709-689-4601
DAILY COST:			HOLE CND.:	Go	boc	WEATHER:	С	lear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	2	2°C	T.P. MOBILE:	709-649-4957
ORMATION:			K.B. ELEV.:		3 m	ROADS:	G	ood		
			•			·				
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	G FLUID		PUMP	S
Bit No.	2			19 m	0.25 °	Time		Pump No.	1	
Size (mm)	216			171 m	2.00 °	Depth(m)		Make	Gardner D	enver
Mfg.	Smith					Density	Water	Model	PY-7	
Туре	C3P					Mud Grad		Liner X Stk	6"	
Serial #	MJ2029					Vis		SPM	52	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	225					YP		Pump Rate	0.39	
To (mKB)	242					Gels		Pump Press.	50	
Hrs on Bit	11					pН		Drillpipe AV		
WOB (daN)	2					WL (cc's)		Drillcollar AV		
RPM	80					Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?						Solids (%)		M	UD & CHEN	/ICALS
Meters						Oil (%)		Mud Cycle	20	min
m/hr						Pf/Mf		Bottoms Up	22	min
Cum Hrs						MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	9	m3
BOTTOMH	OLE ASSEI	MBLY				Ca (ppm)		System Vol.	39	m3
No.	Item	Max OD	Min ID	Connection 3	Size & Type					
1	Bit							Mud & Chemie	cals Added:	
2	Stab					Mud Co.		Sawdust 12		
3						Mud Man				
BHA Length:	3.88	Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks	100	DC Conn:						
Jts DP in hole:	30	DP on Loc:	152	DP Conn:		VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIO		EAKDOWN			Water added		Mud Daily Cos	st	
RU/TO		Survey		Plug Back		Losses		Mud Cum Cos		
Drill Actual	19	Logging		Fishing		WELL CON	TROL	SOLIDS CO		
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		-
Rm Rathole		WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's		Safety meet		Calc Hole Fill		Vol UF (l/min)		g-
Tripping	4 3/4	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig	1/4	Drill Out Cmt		BOP Drill		Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST		Clean Tanks		Calc Hole Fill		Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:	i	(to 24:00)
							2400			(10 24.00)
From		Duration		Decembe	er 1, 2005	(0000 hrs - 2	2400 nrs) /ent			
0:00	8:00	8.00	Drill 216mm	n Hole From 2	220 to 225mt		CIII.			
8:00	12:45	4.75		Change, RI		10				
12:45	12:45	3.50		Hole From 2		re				
12:45	16:15	0.25		Wire in Stea		10				
16:15	0:00	7.50	0	n Hole From 2		rs				
10.30	0.00	7.50	ווווסו ב וווים		23 10 2301111	10				
24 HOUR F										

Well Nar	ne: Hurric	ane #2 (W	/hip #1)			REPORT #:	11	DATE:	Decer	nber 3, 2005
DEPTH 24:00:	252	2.0 m	PROGRESS	: 16.	.0 m	Last 24 Hr Rot		19.00 hr	Ave RO	> 0.8 m/hr
OPER 06:00:	Drilling @	260				FOREMAN:	Tom	Targett	MOBILE NO .:	709-689-460
DAILY COST:			HOLE CND .:	Go	boc	WEATHER:	С	lear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	2	2°C	T.P. MOBILE:	709-649-495
FORMATION:			K.B. ELEV.:	-	3 m	ROADS:	G	ood		
						•				
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	IG FLUID		PUMP	S
Bit No.	RR3	4		19 m	0.25 °	Time		Pump No.	1	•
Size (mm)	216	216		171 m	2.00 °	Depth(m)		Make	Gardner D	enver
Mfg.	Smith	Hughs				Density	Water	Model	PY-7	
туре	C3P	MXC530				Mud Grad	mator	Liner X Stk	6"x 7"	
Serial #	MJ2029	6006124				Vis		SPM	40	
Nozzles	OPEN	OPEN				PV		Pump Eff.	95%	
From (mKB)	225	245				YP		Pump Rate	0.01	
To (mKB)	245	243				Gels		Pump Rate Pump Press.	80	
. ,	245	8						-	00	
Hrs on Bit						pH		Drillpipe AV		
WOB (daN)	2	3				WL (cc's)		Drillcollar AV		
RPM	80	80				Filter Cake		Nozzle Vel		
Condition	2					Sand (%)		L		
Pulled For?	Hours					Solids (%)			UD & CHEN	
Meters	20					Oil (%)		Mud Cycle	22	min
m/hr						Pf/Mf		Bottoms Up	18	min
Cum Hrs						MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	9	m3
BOTTOMH	OLE ASSE	MBLY				Ca (ppm)		System Vol.	39	m3
No.	Item	Max OD	Min ID	Connection	Size & Type					
1	Bir							Mud & Chemi	cals Added:	
2	Stab					Mud Co.		Sawdust 12		
3						Mud Man				
3HA Length:	3.88	Hook Load:	1	DP size		Mud Up @				
Avail WOB:		Jts DP Racks	100	DC Conn:						
	20						M <sup>3</sup>			
Jts DP in hole:	32	DP on Loc:	152	DP Conn:		VOLUMES	141	_		
	OPERATIO	NS TIME BR	EAKDOWN			Water added		Mud Daily Co		
RU / TO	10	Survey		Plug Back		Losses		Mud Cum Cos		
Drill Actual	19	Logging		Fishing		WELL CON	TROL	SOLIDS C	ONTROL	
Reaming	3/4	Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		
Rm Rathole		WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ	1/4	NU BOP's		Safety meet		Calc Hole Fill		Vol UF (l/min)		
Tripping	3 1/2	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig	1/2	Drill Out Cmt		BOP Drill		Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST		Wait on Cement		Calc Hole Fill		Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR		FOR THE D		Decembr	er 2, 2005	(0000 hrs -	2400 hrs)			
From	То	Duration		20001100		1	vent			
0:00	11:00	11.00	Drill 216mm	n Hole From 2	236 to 245mt					
11:00	11:15	0.25	Circulate							
11:15	11:30	0.25	Rig Service	9						
11:30	15:00	3.50		, ole Down Dirv	erter Flowlin	e Change Bit		RIH		
15:00	15:45	0.75		n 222 to 243m		o,onanye bi	, i vippie up,			
15:45	23:45	8.00		n Hole From		tre				
23:45	0:00	0.25	Rig Service		270 10 202111	113				
20.40	0.00	0.25	ING SEIVICE	,						
24 HOUR I	Forcast :									
Continue to	Drill 216mr	n Hole,								

284 Drilling @ 2	.0 m 292mtrs	PROGRESS: HOLE CND.: RIG / RIG #:	Go	0 m bod	Last 24 Hr Rota FOREMAN: WEATHER:	Tom	23.50 hr Targett owing	Ave ROF MOBILE NO.: TOOLPUSH:	2 1.4 m/hr 709-689-4601 Tom Targett
Drilling @ 2	292mtrs			ood					
				bod	WEATHER:	Sno	owing	TOOLPUSH:	Tom Targett
			Indersoll R	Rand RD10	TEMP.:	-	1°C	T.P. MOBILE:	709-649-4957
		K.B. ELEV.:	9	3 m	ROADS:		ood	THE MODILE.	100 010 1001
			0.0		110/120.				
	ORMANCE		SUR	VEYS	DRILLIN		1	PUMP	\$
							Pump No		5
							-		enver
				2.00	• • • /	Water			
U					-	mator			
							-		
					II. I				
					· /				
					Solids (%)		M	UD & CHEM	/ICALS
					Oil (%)		Mud Cycle	22	min
					Pf/Mf		Bottoms Up	18	min
					мвт		Tanks	30	m3
					CI (ppm)		Hole Volume	7	m3
OLE ASSE	MBLY				fi		System Vol.	37	m3
1		Min ID	Connection §	Size & Type					
-							Mud & Chemic	als Added:	
Stab					Mud Co.		Poly Plus 1		
					Mud Man		Sawdust 4		
3.88	Hook Load:		DP size		Mud Up @		Baro-Lift 2		
	Jts DP Racks	100	DC Conn:						
36	DP on Loc:	152	DP Conn:			M <sup>3</sup>	7		
							Mud Daily Car	.+	
			1		1				
23 1/2	-		-						
20 1/2			-				-		FSI
	-								101
	-							Desilter	Centrifuge
				1/4			Vol UF (I/min)	Desilier	Continugo
			-	., .			. ,		
1/4									
., .									
				24					(to 24:00)
							Boller His.		(10 24.00)
1	1	NIE :	Decembe	er 3,2005	,	,			
		Drill 216mm	Hole From C	52 to 262mt		CIII.			
				.52 10 2031111	3				
				63 to 260mt	'S				
				.00 10 2031111	5				
				69 to 28/mtr	s				
				55 10 20 <del>4</del> mili	•				
0.00	0.25	I LIG OCIVICE							
1									
1									
1									
1									
1									
1									
4									
	1								
Forcast :									
	Item           Bit           Stab           3.88           36           OPERATION           23 1/2           1/4	216       Hughs         MXC530       6006124         OPEN       245         284       31         31       1/4         3       80         OLE ASSEWBLY         Item       Max OD         Bit       3.88         Stab       -         3.88       Hook Load:         Jts DP Racks       36         DP on Loc:       OPERATIONS TIME BR         23       1/2       Logging Run Casing Cementing WOC NU BOP's Test BOPs         1/4       Drill Out Cmt DST Hndle Tools         SUMMARY FOR THE DATO         St15       8.25         8:30       0.25         12:00       3.50         12:15       0.25         23:45       11.50	216       Hughs         MXC530       6006124         OPEN       245         284       31         31       1/4         3       80         OLE ASSEMBLY         Item       Max OD         Bit       9         Stab       9         3.88       Hook Load:         Jts DP Racks       100         36       DP on Loc:       152         OPERATIONS TIME BREAKDOWN         23       1/2       Logging Run Casing Cementing WOC         NU BOP's Test BOPs       Test BOPs         1/4       Drill Out Cmt DST Hndle Tools       DST         SUMMARY FOR THE DATE :       To         To       Duration         8:15       8.25       Drill 216mm         8:30       0.25       Rig Service         12:00       3.50       Drill 216mm	216       Hughs       171 m         Hughs       MXC530       171 m         MXC530       6006124       171 m         OPEN       245       284         31 1/4       3       171 m         3       80       Image: Stable s	216         Hughs         171 m         2.00 °           Hughs         MXC530         6006124         -         -           OPEN         245         284         -         -         -           284         31 1/4         -         -         -         -         -           31 1/4         -         -         -         -         -         -         -           284         -	216         Hughs         171 m         2.00 °         Depth(m)           MUG S30         6006124         Vis         PV           245         PV         PV           245         Gels         PH           33         B0         WL (cc's)           80         Filter Cake         Sand (%)           Solids (%)         Solids (%)           00il (%)         Solids (%)           00il (%)         Solids (%)           00il (%)         Pilter Cake           Sand (%)         Solids (%)           Stab         Mud Co.           Mud Co.         Mud Co.           Mud Co.         Mud Man           38         Hook Load:         DP size           Jis DP Racks         100         DC conn:           Jis DP Racks         100         DC conn:           VOLUMES         OPC         Mud Co.           Qand Co.         Mix LCM         Mud Co.           Mud Co.         Mud Up @         Stab           23 1/2         Logging         Fishing         Water added           VOC         Mix LCM         MACP(RPa)         Cat Hole Fill           1/4         Drill Out Cmt         BOP D	216       Hughs       171 m       2.00 °       Depth(m)       Density       Water         MXC530       6006124       Vis       PV       Water       Mud Grad       Vis         0PEN       245       S       S       S       PV       YP       S         245       284       31 1/4       S	216     Hughs     Make     Make       Hughs     MXC530     Density     Water     Model       MXC5230     Good 124     Muld Grad     Water     Model       0FEN     PV     Pump Rate     Pump Rate       284     Gels     Pump Rate       31 1/4     PH     Drillopic AV       30     Min ID     Connection Size & Type       Bit     Cl (ppm)     Muld 2C.       Stab     Muld 2C.     Muld & Chemic       38     Hook Load:     DP size       Muld 20:     Solids (%)     Muld 2C.       Stab     IS2     PP conn:     VolUMES     Muld 2chemic       36     Po n Loc:     152     PP conn:     VolUMES     Muld 2chemic       23 1/2     Survey     Fling     RSPP     Shaker Make     Muld Cum Cos       37 1/4     Difloying     Fling     Muld Cum Cos     Muld Cum Cos       23 1/2     Survey     Plug Back     Centering     Muld Cum Cos       WC     Marc Casing     Work Wason     Mac Hole Fill     Uf Uf (min)       Act Hole Fill     Uf UF (min)     Act Hole Fill     Uf UF (min)       1/4     Bolio Drill 216mm Hole From 252 to 263mtrs     Shaker Make       Bolier Hrs:     Stab	216         Hughs         Make         Gardner D.           Hughs         MXC530         Depth(m)         Make         Gardner D.           MXC530         Depth(m)         Density         Water         Model         PY-7           6006124         Vis         PV         Pump Fit.         95%           245         YP         BMM         40         Pump Fit.         95%           245         YP         Gels         Pump Fit.         95%           31 1/4         Gels         PH         Difficat AV         Nozzle Vel           36         PH         Difficat AV         Nozzle Vel         22           800         Solids (%)         OII (%)         MUd Cycle         22         22           810         Imm         Connection Size & Type         Nud Co.         Poly Plus 1         Sawdust 4         Baro-Lift         Sawdust 4         Baro-Lift         Sawdust 4         Baro-Lift         Sawdust 4         Baro-Lift         Desite         Nud Co.         Sawdust 4         Ba

			16:10 #4)				40		<b>D</b>	
	ne: Hurric				•	REPORT #:	13	DATE:		nber 5, 2005
DEPTH 24:00:		0.0 m	PROGRESS	: 25.	0 m	Last 24 Hr Rota		23.75 hr	Ave ROP	
OPER 06:00:	312					FOREMAN:		Targett	MOBILE NO .:	709-689-4601
DAILY COST:			HOLE CND.:			WEATHER:		owing	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:		Rand RD10	TEMP.:		2°C	T.P. MOBILE:	709-649-4957
FORMATION:			K.B. ELEV.:	3.3	3 m	ROADS:	Sli	ppery		
				1		u <u> </u>		-1		-
		ORMANCE	1		VEYS	DRILLIN			PUMP	S
Bit No.	4			19 m	0.25 °	Time	2400	Pump No.	1	
Size (mm)	216			171 m	2.00 °	Depth(m)	309	Make	Gardner D	enver
Mfg. <del>-</del>	Hughs					Density	970	Model	PY-7	
Туре	MXC530 6006124					Mud Grad	32	Liner X Stk	6"x 7" 40	
Serial # Nozzles	OPEN					Vis PV	32	SPM Pump Eff.	40 95%	
From (mKB)	245					r v YP		-	0.01	
To (mKB)	309					Gels		Pump Rate Pump Press.	80	
Hrs on Bit	54 1/2					pH		Drillpipe AV	00	
WOB (daN)	3					WL (cc's)		Drillcollar AV		
RPM	80					Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?						Solids (%)		М	UD & CHEM	<b>AICALS</b>
Meters						Oil (%)		Mud Cycle	4255	min
m/hr						Pf/Mf		Bottoms Up	1166	min
Cum Hrs						MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	11	m3
BOTTOMH	OLE ASSE	MBLY				Ca (ppm)		System Vol.	41	m3
No.	Item	Max OD	Min ID	Connection	Size & Type					
1	Bit							Mud & Chemi	cals Added:	
2	Stab					Mud Co.		Baro-lift 1		
3						Mud Man				
BHA Length:	3.88	Hook Load:		DP size	_	Mud Up @				
Avail WOB:		Jts DP Racks	100	DC Conn:	-					
Jts DP in hole:	40	DP on Loc:	152	DP Conn:		VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIO	NS TIME BR	EAKDOWN	1		Water added		Mud Daily Co	st	
RU / TO		Survey		Plug Back		Losses		Mud Cum Cos	st	
Drill Actual	23 3/4	Logging		Fishing		WELL CON	TROL	SOLIDS C	ONTROL	
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		-
Rm Rathole		WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's		Safety meet	1/4	Calc Hole Fill		Vol UF (l/min)		
Tripping		Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig	1/2	Drill Out Cmt		BOP Drill		Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST				Calc Hole Fill		Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24 1/2	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY I	-	ATE :	Decembe	er 4, 2005	(0000 hrs - 2	2400 hrs)			
From	То	Duration					ent			
0:00	11:45	11.75	Drill 216mr	n Hole From 2	284 to 298mt	rs				
11:45	12:00	0.25	Rig Service							
11:45 12:00	12:00 23:30	0.25 11.50	Drill 216mr	m Hole From 2	298 to 309mt	rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00	12:00 23:30	0.25 11.50	Drill 216mr Rig Service	m Hole From 2		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30	12:00 23:30 23:45 0:00	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				
11:45 12:00 23:30 23:45	12:00 23:30 23:45 0:00	0.25 11.50 0.25	Drill 216mr Rig Service	n Hole From 2 e		rs				

Woll Nan			(hin #1)			DEDODT #	1.4			
	ne: Hurric	alle #2 (W 3.0 m	PROGRESS	. 11	0 m	REPORT #:	14	DATE: 15.75 hr	Ave ROF	nber 6, 2005 • 0.9 m/hr
DEPTH 24:00: OPER 06:00:		Wait on Cen		. 14.	UIII	Last 24 Hr Rota		Targett	MOBILE NO.:	709-689-4601
DAILY COST:	Onculate /	Walt on Cen	HOLE CND.:	G	bod	WEATHER:		owing	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:		Rand RD10	TEMP.:		2°C	T.P. MOBILE:	709-649-4957
FORMATION:			KIG / RIG #.	Ų	3 m	ROADS:		ppery	I.P. WODILE.	109-049-4951
			N.D. EEE V	0.0	5 111	110/120.	01	ppory		
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	G FLUID		PUMP	S
Bit No.	4			19 m	0.25 °	Time	2400	Pump No.	1	-
Size (mm)	216			171 m	2.00 °	Depth(m)	323	Make	Gardner D	enver
Mfg.	Hughs			323 m	3.75 °	Density	1000	Model	PY-7	
Туре	MXC530					Mud Grad		Liner X Stk	6"x 7"	
Serial #	6006124					Vis	32	SPM	40	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	245					YP		Pump Rate	0.01	
To (mKB)	323					Gels		Pump Press.	80	
Hrs on Bit	70 1/4					рН		Drillpipe AV		
WOB (daN)	3					WL (cc's)		Drillcollar AV		
RPM	80					Filter Cake		Nozzle Vel		
Condition	3					Sand (%)				
Pulled For?	TD					Solids (%)		М	UD & CHEN	/ICALS
Meters						Oil (%)		Mud Cycle	22	min
m/hr						Pf/Mf		Bottoms Up	18	min
Cum Hrs						MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	7	m3
	OLE ASSEI		1	n -		Ca (ppm)		System Vol.	37	m3
No.	Item	Max OD	Min ID	Connection 3	Size & Type					
1	Bit					-		Mud & Chemi	cals Added:	
2	Stab					Mud Co.				
3	0.00					Mud Man				
BHA Length:	3.88	Hook Load:	100	DP size	-	Mud Up @				
Avail WOB:		Jts DP Racks	100	DC Conn:	-		M <sup>3</sup>	_		
Jts DP in hole:	41	DP on Loc:	152	DP Conn:		VOLUMES	M			
	OPERATIO		1		1	Water added		Mud Daily Co		
RU / TO		Survey	1/2	Plug Back		Losses		Mud Cum Cos		
Drill Actual	15 3/4	Logging		Fishing		WELL CON	TROL	SOLIDS C	ONTROL	501
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		
Rm Rathole	1/0	WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ	1/2	NU BOP's		Safety meet		Calc Hole Fill		Vol UF (I/min)		
Tripping	6 3/4	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig Repair Rig	1/2	Drill Out Cmt DST		BOP Drill		Lst BOP Drill: Calc Hole Fill		O.F. (kg/m3) Hours/Days		
				Tatalilas	24			Boiler Hrs:		(42.24:00)
Slip/Cut Line		Hndle Tools		Total Hrs		Act Hole Fill		Builer HIS.		(to 24:00)
		-	AIE:	Decembe	er 5, 2005	(0000 hrs - 2				
<b>From</b> 0:00	<b>To</b> 11:45	Duration 11.75	Drill 016mm	n Hole From 3	200 to 201 mt		ent			
11:45	11:45	0.25	Rig Service		วงฮ เง งุ เททโ	10				
11.40		4.00		n Hole From 3	201 to 202mt	re				
	16.00					10				
12:00	16:00		WVIDAR I FID							
12:00 16:00	20:30	4.50	Wiper Trip							
12:00 16:00 20:30	20:30 21:00	4.50 0.50	Circulate	323mtrs ( 2 7	5Degrees )					
12:00 16:00 20:30 21:00	20:30 21:00 21:30	4.50 0.50 0.50	Circulate Survey @ 3	323mtrs (3.7 ı Out Diverter.	0 /	a in Diverter	Flowine			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00	20:30 21:00 21:30	4.50 0.50 0.50	Circulate Survey @ 3	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			
12:00 16:00 20:30 21:00 21:30	20:30 21:00 21:30 23:45 0:00	4.50 0.50 0.50 2.25	Circulate Survey @ 3 POOH, Rig	Out Diverter,	0 /	g in Diverter ,	Flowine.			

iit on Cer	DRMANCE	PROGRESS HOLE CND.: RIG / RIG #: K.B. ELEV.: Min ID	Go Ingersoll F 3.3	Dood Rand RD10 3 m VEYS 0.25 ° 2.00 ° 3.75 °	Last 24 Hr Rotatin FOREMAN: WEATHER: TEMP.: ROADS: Depth(m) Density Mud Grad Vis PV YP Gels PV YP Gels PH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pt/Mf MBT Cl (ppm) Ca (ppm) Mud Co.	Tom C -: Snow	Ilear 3°C Covered Pump No. Make Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel	Ave ROF MOBILE NO.: TOOLPUSH: T.P. MOBILE: 1 Gardner Do PY-7 6"x 7" 40 95% 0.01 JD & CHEN	709-689-4601 Tom Targett 709-649-4957 S enver
T PERF( E ASSEN n	DRMANCE	RIG / RIG #: K.B. ELEV.:	Ingersoll F 3.3 19 m 171 m 323 m	Rand RD10 3 m VEYS 0.25 ° 2.00 ° 3.75 °	WEATHER: TEMP.: ROADS: Time Depth(m) Density Mud Grad Vis PV YP Gels PH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Ca (ppm)	C -: Snow	Cilear 3°C Covered Pump No. Make Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemice	TOOLPUSH: T.P. MOBILE: 1 Gardner Du PY-7 6"x 7" 40 95% 0.01	Tom Targett 709-649-4957 S enver <i>MICALS</i> min min m3 m3
E ASSEN	IBLY Max OD Hook Load:	RIG / RIG #: K.B. ELEV.:	Ingersoll F 3.3 19 m 171 m 323 m	Rand RD10 3 m VEYS 0.25 ° 2.00 ° 3.75 °	TEMP.: ROADS: Time Depth(m) Density Mud Grad Vis PV YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Mud Co.	-: Snow	3°C Covered Pump No. Make Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol.	T.P. MOBILE: <b>PUMPS</b> 1 Gardner Du PY-7 6"x 7" 40 95% 0.01 JD & CHEN	709-649-4957 S enver MICALS min min m3 m3
E ASSEN	IBLY Max OD Hook Load:	K.B. ELEV.:	3.: SUR 19 m 171 m 323 m	3 m VEYS 0.25 ° 2.00 ° 3.75 °	ROADS: Time Depth(m) Density Mud Grad Vis PV YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pt/Mf MBT CI (ppm) Ca (ppm) Mud Co.	Snow	Covered Covered Pump No. Make Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic	PUMPS 1 Gardner Du PY-7 6"x 7" 40 95% 0.01	AICALS min min m3 m3
E ASSEN	IBLY Max OD Hook Load:		<b>SUR</b> 19 m 171 m 323 m	VEYS 0.25 ° 2.00 ° 3.75 °	DRILLING       Time       Depth(m)       Density       Mud Grad       Vis       PV       YP       Gels       pH       WL (cc's)       Filter Cake       Sand (%)       Solids (%)       Oil (%)       Pf/Mf       MBT       CI (ppm)       Ca (ppm)       Mud Co.		Pump No. Make Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol.	1 Gardner Dr PY-7 6"x 7" 40 95% 0.01	enver MICALS min min m3 m3
E ASSEN	IBLY Max OD Hook Load:	Min ID	19 m 171 m 323 m	0.25 ° 2.00 ° 3.75 °	Time Depth(m) Density Mud Grad Vis PV YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pt/Mf MBT Cl (ppm) Ca (ppm) Ca (ppm)	FLUID	Make Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol.	1 Gardner Dr PY-7 6"x 7" 40 95% 0.01	enver MICALS min min m3 m3
E ASSEN	IBLY Max OD Hook Load:	Min ID	19 m 171 m 323 m	0.25 ° 2.00 ° 3.75 °	Time Depth(m) Density Mud Grad Vis PV YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pt/Mf MBT Cl (ppm) Ca (ppm) Ca (ppm)		Make Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol.	1 Gardner Dr PY-7 6"x 7" 40 95% 0.01	enver MICALS min min m3 m3
n	Max OD Hook Load:	Min ID	171 m 323 m	2.00 ° 3.75 °	Depth(m) Density Mud Grad Vis PV YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm)		Make Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol.	PY-7 6"x 7" 40 95% 0.01	<b>/IICALS</b> min min m3 m3
n	Max OD Hook Load:	Min ID	323 m	3.75°	Density Mud Grad Vis PV YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pt/Mf MBT CI (ppm) Ca (ppm)		Model Liner X Stk SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol.	PY-7 6"x 7" 40 95% 0.01	MICALS min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	Vis PV YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Ca (ppm)		SPM Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol.	40 95% 0.01	min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	PV YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Ca (ppm)		Pump Eff. Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol.	95% 0.01	min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	YP Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Ca (ppm)		Pump Rate Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic	0.01	min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	Gels pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Mud Co.		Pump Press. Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic	JD & CHEN	min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	pH WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Mud Co.		Drillpipe AV Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic		min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	WL (cc's) Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Mud Co.		Drillcollar AV Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic		min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	Filter Cake Sand (%) Solids (%) Oil (%) Pf/Mf MBT CI (ppm) Ca (ppm) Mud Co.		Nozzle Vel Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic		min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	Sand (%) Solids (%) Oil (%) Pf/Mf MBT Cl (ppm) Ca (ppm) Mud Co.		Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic		min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	Solids (%) Oil (%) Pf/Mf MBT Cl (ppm) Ca (ppm) Mud Co.		Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic		min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	Oil (%) Pf/Mf MBT Cl (ppm) Ca (ppm) Mud Co.		Mud Cycle Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic		min min m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	Pf/Mf MBT Cl (ppm) Ca (ppm) Mud Co.		Bottoms Up Tanks Hole Volume System Vol. Mud & Chemic	cals Added:	min m3 m3
n	Max OD Hook Load:	Min ID	Connection :	Size & Type	MBT CI (ppm) Ca (ppm) Mud Co.		Tanks Hole Volume System Vol. Mud & Chemic	als Added:	m3 m3
n	Max OD Hook Load:	Min ID	Connection	Size & Type	CI (ppm) Ca (ppm) Mud Co.		Hole Volume System Vol. Mud & Chemic	als Added:	m3
n	Max OD Hook Load:	Min ID		Size & Type	Ca (ppm) Mud Co.		System Vol. Mud & Chemic	als Added:	
n	Max OD Hook Load:	Min ID	Connection	Size & Type	Mud Co.		Mud & Chemic	als Added:	110
	Hook Load:							als Added:	
lb									
					Mud Man				
	Jts DP Racks		DP size		Mud Up @				
			DC Conn:						
	DP on Loc:	152	DP Conn:		VOLUMES	M <sup>3</sup>			
RATION	IS TIME BR	EAKDOWN	1		Water added		Mud Daily Cos	st	
	Survey		Plug Back		Losses		Mud Cum Cost	t	
	Logging		Fishing		WELL CONT	ROL	SOLIDS CO	ONTROL	
	Run Casing	4 1/4	Work w/Pason		RSPP		Shaker Make		FSI
	Cementing	1 1/4	Work Pipe		ST/Min		Shaker Mesh		
	WOC	9 1/4	Mix LCM		MACP(kPa)			Desilter	Centrifuge
8 1/2			Safety meet	1/4	Calc Hole Fill				
1/2									
			BOP Drill						
			<b>-</b>	24					(4- 04-00)
					- I	<b>221</b>	DOILEI HIS.		(to 24:00)
		AIE:	Decembe	er 6, 2005		,			
		Rig in dive	rter Flowline		Eve	m			
		U U							
5:00				a to 323m					
13:30									
14:45	1.25				7 Cubes 15.2p	pg,20 Mr	pa Cement W	ith LCM Ad	ditive,Drop
0:00	9.25								
		-							
		-							
ast :									
	1/2 MARY F To D:30 D:45 5:00 3:30 4:45 D:00 0:00 St: :	8 1/2       NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools         MARY FOR THE DA To       Duration         0:30       0.50         0:45       0.25         5:00       4.25         3:30       8.50         4:45       1.25         0:00       9.25         0:00       9.25         0:00       9.25         0:00       9.25         0:00       9.25         0:00       9.25         0:00       9.25	31/2       NU BOP's         1/2       Test BOPs         Drill Out Cmt       DST         Hndle Tools       Image: Constraint of the conste	31/2       NU BOP's       Safety meet         1/2       Test BOPs       Weld on Bowl         Drill Out Cmt       BOP Drill         DST       Total Hrs         MARY FOR THE DATE :       December         0       Ouration         0:30       0.50       Rig in diverter,Flowline         0:45       0.25       Safety Meeting         5:00       4.25       Rig to and Run 7" Casing         3:30       8.50       Circulate ,Wait on Cement         4:45       1.25       Cement Casing,Pump W         0:00       9.25       Wait on Cement to Set         0:00       0:00       0:00         0:00       0:00       0:00	3 1/2       NU BOP's       Safety meet       1/4         1/2       Test BOPs       Weld on Bowl       BOP Drill         Drill Out Cmt       DST       Total Hrs       24         MARY FOR THE DATE :       December 6, 2005       Total Hrs       24         MARY FOR THE DATE :       December 6, 2005       Total Hrs       24         0:30       0.50       Rig in diverter, Flowline       0:323m         0:45       0.25       Safety Meeting       5:00         5:00       4.25       Rig to and Run 7" Casing to 323m         3:30       8.50       Circulate ,Wait on Cement         4:45       1.25       Cement Casing,Pump Water Spacer,         Plug,Displace Casing With 6 Cubes V       0:00       9.25         0:00       9.25       Wait on Cement to Set       0:00         0:00       0:00       0:00       0:00       0:00         0:00       0:00       0:00       0:00       0:00         0:00       0:00       0:00       0:00	8.1/2       NU BOP's       Safety meet       1/4       Calc Hole Fill         1/2       Test BOPs       Weld on Bowl       Act Hole Fill       Act Hole Fill         1/2       Test BOPs       BOP Drill       Lst BOP Drill       Lst BOP Drill         Drill Out Cmt       BOP Drill       Calc Hole Fill       Lst BOP Drill:         MARY FOR THE DATE :       December 6, 2005       (0000 hrs - 24         To       Duration       Eve         0:30       0.50       Rig in diverter, Flowline         0:45       0.25       Safety Meeting         5:00       4.25       Rig to and Run 7" Casing to 323m         3:30       8.50       Circulate ,Wait on Cement         4:45       1.25       Cement Casing, Pump Water Spacer, 7 Cubes 15.2p         Plug,Displace Casing With 6 Cubes Water, .25 Cube       D:00         0:00       9.25       Wait on Cement to Set	31/2       NU BOP's       Safety meet       1/4       Calc Hole Fill         1/2       Test BOPs       Weld on Bowl       Act Hole Fill       Act Hole Fill         Drill Out Cmt       BOP Drill       Ist BOP Drill       Ist BOP Drill       Ist BOP Drill         MARY FOR THE DATE :       December 6, 2005       (0000 hrs - 2400 hrs)         To       Duration       Event         0:30       0.50       Rig in diverter, Flowline       0:45         0:45       0.25       Safety Meeting       5:00         5:00       4.25       Rig to and Run 7" Casing to 323m       3:30         3:30       8.50       Circulate ,Wait on Cement       4:45         4:45       1.25       Cement Casing,Pump Water Spacer, 7 Cubes 15.2ppg,20 M         Plug,Displace Casing With 6 Cubes Water,.25 Cubes Cemen       0:00         0:00       9.25       Wait on Cement to Set         0:00       9.25       Wait on Cement to Set         0:00       9.25       Wait on Cement to Set         0:00       9.25       Wait on Cement to Set	31/2       NU BOP's       Safety meet       1/4       Calc Hole Fill       Vol UF (l/min)         1/2       Test BOPs       Weld on Bowl       Act Hole Fill       U.F. (kg/m3)         Drill Out Cmt       BOP Drill       Lst BOP Drill       D.F. (kg/m3)         DST       Total Hrs       24       Act Hole Fill       Hours/Days         MARY FOR THE DATE :       December 6, 2005       (0000 hrs - 2400 hrs)       Boiler Hrs:         0:30       0.50       Rig in diverter,Flowline       Event       D:30         0:45       0.25       Safety Meeting       D:30       Circulate ,Wait on Cement         4:45       1.25       Cement Casing,Pump Water Spacer, 7 Cubes 15.2ppg,20 Mpa Cement W         0:00       9.25       Wait on Cement to Set       Different to Surface         0:00       9.25       Wait on Cement to Set       Different to Set         0:00       9.25       Wait on Cement to Set       Different to Set         0:00       9.25       Wait on Cement to Set       Different to Set         0:00       9.25       Wait on Cement to Set       Different to Set         0:00       1.25       Set       Set       Set         0:00       1.25       Set       Set       Set </td <td>8.1/2       NU BOP's       Safety meet       1/4       Calc Hole Fill       Vol UF (l/min)         1/2       Test BOPs       Weld on Bowl       Act Hole Fill       U.F. (kg/m3)         Drill Out Cmt       BOP Drill       BOP Drill       Lst BOP Drill       D.F. (kg/m3)         ST       Hole Tools       Total Hrs       24       Act Hole Fill       U.F. (kg/m3)         MARY FOR THE DATE :       December 6, 2005       (0000 hrs - 2400 hrs)       Boiler Hrs:         MARY FOR THE DATE :       December 6, 2005       (0000 hrs - 2400 hrs)       Boiler Hrs:         0.30       0.50       Rig in diverter, Flowline       D.F. (kg/m3)       Boiler Hrs:         0.30       0.50       Rig in diverter, Flowline       D.F. (kg/m3)       Boiler Hrs:         0.30       0.50       Rig in diverter, Flowline       D.F. (kg/m3)       Boiler Hrs:         0.31       0.425       Rig to and Run 7" Casing to 323m       D.F. (kg/m3)       D.F. (kg/m3)         3:30       8.50       Circulate , Wait on Cement       4:45       1.25       Cement Casing, Pump Water Spacer, 7 Cubes 15.2ppg,20 Mpa Cement With LCM Add       Plug, Displace Casing With 6 Cubes Water, .25 Cubes Cement to Surface       D.F. (kg/m3)         0:00       9.25       Wait on Cement to Set       D.F. (kg/m3)       <td< td=""></td<></td>	8.1/2       NU BOP's       Safety meet       1/4       Calc Hole Fill       Vol UF (l/min)         1/2       Test BOPs       Weld on Bowl       Act Hole Fill       U.F. (kg/m3)         Drill Out Cmt       BOP Drill       BOP Drill       Lst BOP Drill       D.F. (kg/m3)         ST       Hole Tools       Total Hrs       24       Act Hole Fill       U.F. (kg/m3)         MARY FOR THE DATE :       December 6, 2005       (0000 hrs - 2400 hrs)       Boiler Hrs:         MARY FOR THE DATE :       December 6, 2005       (0000 hrs - 2400 hrs)       Boiler Hrs:         0.30       0.50       Rig in diverter, Flowline       D.F. (kg/m3)       Boiler Hrs:         0.30       0.50       Rig in diverter, Flowline       D.F. (kg/m3)       Boiler Hrs:         0.30       0.50       Rig in diverter, Flowline       D.F. (kg/m3)       Boiler Hrs:         0.31       0.425       Rig to and Run 7" Casing to 323m       D.F. (kg/m3)       D.F. (kg/m3)         3:30       8.50       Circulate , Wait on Cement       4:45       1.25       Cement Casing, Pump Water Spacer, 7 Cubes 15.2ppg,20 Mpa Cement With LCM Add       Plug, Displace Casing With 6 Cubes Water, .25 Cubes Cement to Surface       D.F. (kg/m3)         0:00       9.25       Wait on Cement to Set       D.F. (kg/m3) <td< td=""></td<>

	e: Hurric	ane #2 (W	/hin #1)			REPORT #:	16	DATE:	Decem	nber 8, 2005
DEPTH 24:00:		3.0 m	PROGRESS			Last 24 Hr Rot		DATE.	Ave ROF	,
DPER 06:00:	Rig in flow		I NOORE33			FOREMAN:		Targett	MOBILE NO.:	709-689-4601
AILY COST:			HOLE CND .:			WEATHER:		now	TOOLPUSH:	Tom Targett
UM COST:			RIG / RIG #:	Indersoll F	Rand RD10	TEMP.:		1°C	T.P. MOBILE:	709-649-495
ORMATION:			KIG / KIG #.	9	3 m	ROADS:		Covered	T.F. WOBILE.	703-043-433
			N.D. EEE V	0.0		10/120.	Chiew	0010104		
		ORMANCE		SUP	VEYS		G FLUID	1	PUMPS	
Bit No.		ORMANCE		19 m	0.25 °	Time	GFLUID	Pump No.		5
Size (mm)				171 m	2.00 °	Depth(m)		Make	Gardner De	enver
Mfg.				323 m	2.00 3.75 °	Density		Model	PY-7	
мид. Гуре				020 111	0.70	Mud Grad		Liner X Stk	6"x 7"	
Serial #						Vis		SPM	40	
Nozzles						PV		Pump Eff.	95%	
From (mKB)						YP		Pump Rate	0.01	
Го (mKB)						Gels		Pump Press.		
Irs on Bit						pН		Drillpipe AV		
VOB (daN)						' WL (cc's)		Drillcollar AV		
RPM						Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?						Solids (%)		M	UD & CHEN	/ICALS
Veters						Oil (%)		Mud Cycle		min
n/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						мвт		Tanks		m3
						CI (ppm)		Hole Volume		m3
воттомн	OLE ASSE	MBLY				Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type				-	
1								Mud & Chemi	icals Added:	
2						Mud Co.				
3						Mud Man				
3HA Length:		Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	_					
Jts DP in hole:		DP on Loc:	128	DP Conn:		VOLUMES	M <sup>3</sup>			
DRILLING (	OPERATIO	NS TIME BR	REAKDOWN		<u>.</u>	Water added		Mud Daily Co	st	
RU / TO	7 1/2	Survey		Plug Back		Losses		Mud Cum Co		
Drill Actual		Logging		Fishing		WELL CON	ITROL	SOLIDS C	ONTROL	
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing	1	Work Pipe		ST/Min		Shaker Mesh		
Rm Rathole		woc	14	Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ		NU BOP's		Safety meet		Calc Hole Fill		Vol UF (l/min)	)	
Tripping				Weld on Bowl	1 1/2	Act Hole Fill		U.F. (kg/m3)		
		Test BOPs								
_ubricate Rig		Test BOPs Drill Out Cmt		BOP Drill		Lst BOP Drill:		O.F. (kg/m3)		
				BOP Drill		Calc Hole Fill		O.F. (kg/m3) Hours/Days		
ubricate Rig		Drill Out Cmt		BOP Drill Total Hrs	24	Calc Hole Fill				(to 24:00)
ubricate Rig Repair Rig Slip/Cut Line		Drill Out Cmt DST	ATE :	Total Hrs	24 er 7, 2005		2400 hrs)	Hours/Days		(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line	SUMMARY F	Drill Out Cmt DST Hndle Tools	ATE :	Total Hrs		Calc Hole Fill Act Hole Fill (0000 hrs -	2400 hrs) <b>/ent</b>	Hours/Days		(to 24:00)
Lubricate Rig Repair Rig Blip/Cut Line 24 HOUR S		Drill Out Cmt DST Hndle Tools	ATE : Wait on cer	Total Hrs Decembe		Calc Hole Fill Act Hole Fill (0000 hrs -	,	Hours/Days		(to 24:00)
Lubricate Rig Repair Rig Blip/Cut Line 24 HOUR S From	То	Drill Out Cmt DST Hndle Tools FOR THE DA Duration	Wait on cer Lift diverter	Total Hrs December ment r, cut 7" casing	er 7, 2005 g, rig out dive	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
ubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00	<b>To</b> 8:00	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00	Wait on cer Lift diverter Top up cen	Total Hrs December ment r, cut 7" casing ment job with 0	er 7, 2005 g, rig out dive	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00	To           8:00           12:00           13:00           14:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00	Wait on cer Lift diverter Top up cen Weld on ca	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl	er 7, 2005 g, rig out dive	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	<b>To</b> 8:00 12:00 13:00	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00	To           8:00           12:00           13:00           14:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
ubricate Rig Repair Rig Stip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
ubricate Rig Repair Rig Bilip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
ubricate Rig Repair Rig Stip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
ubricate Rig Repair Rig Stip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To           8:00           12:00           13:00           14:30           20:30	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)
ubricate Rig Repair Rig Stip/Cut Line 24 HOUR S From 0:00 8:00 12:00 13:00 14:30	To 8:00 12:00 13:00 14:30 20:30 0:00	Drill Out Cmt DST Hndle Tools FOR THE DA Duration 8.00 4.00 1.00 1.50 6.00	Wait on cer Lift diverter Top up cen Weld on ca Wait on cer	Total Hrs December ment r, cut 7" casing nent job with 0 using bowl ment	er 7, 2005 g. rig out dive 0.75m3 of 15j	Calc Hole Fill Act Hole Fill (0000 hrs - Everter and flow ppg 20MPa c	vent line. Weldin	Hours/Days Boiler Hrs:	bowl.	(to 24:00)

Well Nam	ne: Hurrican	e #2 (Whi	p #1)			REPORT #:	17	DATE:	Decer	nber 9, 2005
DEPTH 24:00:	326.0	) m	PROGRESS	3.0	) m	Last 24 Hr Rot		1.50 hr	Ave ROP	2.0 m/hr
OPER 06:00:	Re-build Air H	ammer				FOREMAN:	Tom	Targett	MOBILE NO .:	709-689-460
DAILY COST:			HOLE CND.:	Go	od	WEATHER:	C	lear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:		4°C	T.P. MOBILE:	709-649-4957
FORMATION:			K.B. ELEV.:	3.3	3 m	ROADS:	G	iood		
	BIT PERFO	RMANCE		SUR	VEYS	DRILLIN	G FLUID		PUMP	S
Bit No.	1	_		19 m	0.25 °	Time		Pump No.	1	
Size (mm)	158.75			171 m	2.00 °	Depth(m)	326	Make	Gardner D	enver
Mfg.	Hughs			323 m	3.75 °	Density		Model	PY-7	
Туре	STX-20					Mud Grad		Liner X Stk	6"x 7"	
Serial #	5042866					Vis		SPM	40	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	323					YP		Pump Rate	0.01	
To (mKB)	326					Gels		Pump Press.		
Hrs on Bit	9 1/2					pН		Drillpipe AV		
WOB (daN)	2					WL (cc's)		Drillcollar AV		
RPM	80					Filter Cake		Nozzle Vel		
Condition	1					Sand (%)				
Pulled For?	Air Hammer					Solids (%)		М	UD & CHEM	/ICALS
Meters						Oil (%)		Mud Cycle	3754	min
m/hr						Pf/Mf		Bottoms Up	664	min
Cum Hrs						MBT		Tanks	30	m3
						CI (ppm)		Hole Volume	6	m3
BOTTOMH	OLE ASSEMB	LY		1		Ca (ppm)		System Vol.	36	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	ea (pp)		eyekeni ven		ino
1	Bit			2 7/8 IF	5120 G. 19p0			Mud & Chemi	cals Added <sup>.</sup>	
2	Stabilizer			2 7/8 IF x 2 7	7/8 IF	Mud Co.				
3						Mud Man				
BHA Length:	3.84	Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks	100	DC Conn:						
			252			VOLUMES	M <sup>3</sup>			
Jts DP in hole:		DP on Loc:		DP Conn:				-		
	OPERATIONS		AKDOWN			Water added		Mud Daily Cos		
RU / TO	4.4/0	Survey		Plug Back		Losses	TRAI	Mud Cum Cos		
Drill Actual	1 1/2	Logging		Fishing		WELL CON	TIROL	SOLIDS CO	ONTROL	501
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		
Rm Rathole		WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Cond / Circ	1/4	NU BOP's		Safety meet	1/4	Calc Hole Fill		Vol UF (l/min)		
Tripping	1	Test BOPs	7 3/4	Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
Lubricate Rig	1/4	Drill Out Cmt	11	BOP Drill	2	Lst BOP Drill:		O.F. (kg/m3)		
Repair Rig		DST		Winterize Manifold		Calc Hole Fill		Hours/Days		
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FO	R THE DATI	:	Decembe	er 8, 2005	(0000 hrs -	2400 hrs)			
From	То	Duration				E	vent			
0:00	2:30	2.50	Presure Te							
2:30	6:00	3.50		t Rubbers On				ke Manifold		
6:00	8:00	2.00		CR Line,Anti-		<i>i</i> 1 1	Flowline			
8:00	9:00	1.00		it,RIN ,Tag Ce						
9:00	19:15	10.25		ement From 24	45 to 318mtr	S				
19:15	19:30	0.25	Safety Mee	0						
19:30	19:45	0.25	Rig Service							
19:45	20:30	0.75	Drill Out Ce	ement From 3 <sup>-</sup>	18 to 326mtr	S				
20:30	22:00	1.50	Drill format	on from 323m	n to 326m					
22:00	22:15	0.25	Circulate H	ole Clean						
22:15	0:00	1.75	Leak off Te	st, 725psi for	10 mins., 10	15 Mud Wei	ght			
				-						
24 HOUR F	orcast ·									
	orcast .									

	ne: Hurric	ane #2 (W	/hip #1)			REPORT #:	18	DATE:	Decem	ber 10, 2005
DEPTH 24:00:	546	6.0 m	PROGRESS:	220	.0 m	Last 24 Hr Rota	ating Time:	10.75 hr	Ave ROP	20.5 m/hr
OPER 06:00:	630m					FOREMAN:	Tom	Targett	MOBILE NO .:	709-689-4601
DAILY COST:			HOLE CND.:	Go	bod	WEATHER:	C	lear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	-	2°C	T.P. MOBILE:	709-649-4957
ORMATION:			K.B. ELEV.:	-	3 m	ROADS:	C	lear		
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	G FI UID	1	PUMPS	S
Bit No.	2			19 m	0.25 °	Time	012012	Pump No.	1	
Size (mm)	159			171 m	2.00 °	Depth(m)		Make	Gardner D	enver
Mfg.	Mission			323 m	3.75 °	Density	AIR	Model	PY-7	
Туре	Hammer					Mud Grad		Liner X Stk	6"x 7"	
Serial #	A42766					Vis		SPM	40	
Nozzles	OPEN					PV		Pump Eff.	95%	
From (mKB)	326					YP		Pump Rate	0.01	
To (mKB)	546					Gels		Pump Press.	0.01	
. ,	10 3/4					pH		-		
Hrs on Bit								Drillpipe AV		
WOB (daN)	2					WL (cc's)		Drillcollar AV		
RPM	20					Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?						Solids (%)			UD & CHEN	
Meters						Oil (%)		Mud Cycle	4084	min
m/hr						Pf/Mf		Bottoms Up	1084	min
Cum Hrs						мвт		Tanks	30	m3
						CI (ppm)		Hole Volume	11	m3
воттомн	OLE ASSE	MBLY				Ca (ppm)		System Vol.	41	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1	Bit			2 7/8 IF				Mud & Chemi	cals Added:	
2	Stabilizer			2 7/8 IF x 2 7	7/8 IF	Mud Co.				
3						Mud Man				
3HA Length:	1	Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks	100	DC Conn:	-					
Jts DP in hole:	71	DP on Loc:	152	DP Conn:	-	VOLUMES	M <sup>3</sup>			
RU/TO		NS TIME BR				Water added Losses		Mud Daily Cos Mud Cum Cos		
	10.2/4	Survey		Plug Back			TROI			
Drill Actual	10 3/4	Logging		Fishing		WELL CON	IRUL	SOLIDS CO	UNIROL	FSI
		D 0 1		Work w/Pason		RSPP		Shaker Make		F31
Reaming		Run Casing								
Reaming Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh		0.14
Reaming Coring Rm Rathole		Cementing WOC		Mix LCM		MACP(kPa)			Desilter	Centrifuge
Reaming Coring Rm Rathole Cond / Circ		Cementing WOC NU BOP's		Mix LCM Safety meet	3/4	MACP(kPa) Calc Hole Fill		Vol UF (l/min)	Desilter	Centrifuge
Reaming Coring Rm Rathole Cond / Circ Tripping	11 1/4	Cementing WOC NU BOP's Test BOPs		Mix LCM Safety meet Weld on Bowl		MACP(kPa) Calc Hole Fill Act Hole Fill		Vol UF (l/min) U.F. (kg/m3)	Desilter	Centrifuge
Reaming Coring Rm Rathole Cond / Circ Tripping	11 1/4 3/4	Cementing WOC NU BOP's Test BOPs Drill Out Cmt		Mix LCM Safety meet	3/4 1/2	MACP(kPa) Calc Hole Fill		Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3)	Desilter	Centrifuge
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig		Cementing WOC NU BOP's Test BOPs		Mix LCM Safety meet Weld on Bowl	1/2	MACP(kPa) Calc Hole Fill Act Hole Fill		Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
Reaming Coring Rm Rathole Cond / Circ Iripping Lubricate Rig Repair Rig		Cementing WOC NU BOP's Test BOPs Drill Out Cmt		Mix LCM Safety meet Weld on Bowl		MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:		Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3)	Desilter 24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line	3/4	Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST	ATE :	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs	1/2	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	2400 hrs)	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line	3/4	Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	ATE :	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs	1/2 24	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	2400 hrs) <b>/ent</b>	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S	3/4 SUMMARY F	Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools		Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs	1/2 24 er 9, 2005	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From	3/4 SUMMARY F To	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration	Rig out Flov Air Hamme	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs December wline, Rig in J	1/2 24 er 9, 2005	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From	3/4 SUMMARY F To	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration	Rig out Flov	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs December wline, Rig in J	1/2 24 er 9, 2005	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Silip/Cut Line 24 HOUR S From 0:00	3/4 SUMMARY F To 3:30	Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50	Rig out Flov Air Hamme	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs December wline , Rig in A	1/2 24 er 9, 2005	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Silip/Cut Line 24 HOUR S From 0:00 3:30	3/4 <b>SUMMARY F</b> <b>To</b> 3:30 4:00	Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50	Rig out Flov Air Hamme BOP Drill	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs December wline , Rig in A	1/2 24 er 9, 2005	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15	3/4 SUMMARY F To 3:30 4:00 4:15 9:00	Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 0.25 4.75	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs December wline , Rig in A	1/2 24 er 9, 2005 Air Discharge	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00	3/4 SUMMARY F To 3:30 4:00 4:15 9:00 12:00	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 0.25 4.75 3.00	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs December wline , Rig in A r Hammer r Hammer , R	1/2 24 er 9, 2005 Air Discharge	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Bilp/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00	3/4 SUMMARY F To 3:30 4:00 4:15 9:00 12:00 12:30	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 0.25 4.75 3.00 0.50	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee	Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs December wline , Rig in A r Hammer r Hammer , R ting	1/2 24 er 9, 2005 Air Discharge	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30	3/4 <b>SUMMARY F</b> <b>To</b> 3:30 4:00 4:15 9:00 12:00 12:30 12:45	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 0.25 4.75 3.00 0.50 0.25	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Rig Service	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R ting	1/2 24 er 9, 2005 Air Discharge	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Bilip/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30 12:45	3/4 <b>To</b> 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 0.25 4.75 3.00 0.50 0.25 1.00	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Rig Service Blow Hole 0	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R tting Clean	1/2 24 er 9, 2005 Air Discharge	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Silp/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45	3/4 <b>To</b> 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 0.25 4.75 3.00 0.50 0.25 1.00 5.25	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Rig Service Blow Hole ( Drill 159mn	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R ting Clean n Hole From 3	1/2 24 er 9, 2005 Air Discharge	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Bilp/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00	3/4 To 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 0.25 4.75 3.00 0.25 4.75 3.00 0.25 1.00 5.25 0.25	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Rig Service Blow Hole ( Drill 159mn Safety Mee	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R ting Clean n Hole From 3 ting / Crew C	1/2 24 er 9, 2005 Air Discharge RIH 326 to 432mt hange	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Bilp/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:00 12:45 13:45 19:00 19:15	3/4 <b>To</b> 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15 23:45	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.25 4.75 3.00 0.25 4.75 3.00 0.25 1.00 5.25 0.25 4.50	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Blow Hole ( Drill 159mn Safety Mee Drill 159mn	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R thing Clean n Hole From 3 ting / Crew C n Hole From 4	1/2 24 er 9, 2005 Air Discharge RIH 326 to 432mt hange	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Silp/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00	3/4 To 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.50 0.25 4.75 3.00 0.25 4.75 3.00 0.25 1.00 5.25 0.25	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Rig Service Blow Hole ( Drill 159mn Safety Mee	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R thing Clean n Hole From 3 ting / Crew C n Hole From 4	1/2 24 er 9, 2005 Air Discharge RIH 326 to 432mt hange	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Bilp/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15	3/4 <b>To</b> 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15 23:45	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.25 4.75 3.00 0.25 4.75 3.00 0.25 1.00 5.25 0.25 4.50	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Blow Hole ( Drill 159mn Safety Mee Drill 159mn	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R thing Clean n Hole From 3 ting / Crew C n Hole From 4	1/2 24 er 9, 2005 Air Discharge RIH 326 to 432mt hange	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Bilp/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15	3/4 <b>To</b> 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15 23:45	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.25 4.75 3.00 0.25 4.75 3.00 0.25 1.00 5.25 0.25 4.50	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Blow Hole ( Drill 159mn Safety Mee Drill 159mn	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R thing Clean n Hole From 3 ting / Crew C n Hole From 4	1/2 24 er 9, 2005 Air Discharge RIH 326 to 432mt hange	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
Reaming Coring Rm Rathole Cond / Circ Tripping Jubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 13:45 19:00 19:15 23:45	3/4 To 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15 23:45 0:00	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.25 4.75 3.00 0.25 4.75 3.00 0.25 1.00 5.25 0.25 4.50	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Blow Hole ( Drill 159mn Safety Mee Drill 159mn	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R thing Clean n Hole From 3 ting / Crew C n Hole From 4	1/2 24 er 9, 2005 Air Discharge RIH 326 to 432mt hange	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)
teaming coring tm Rathole cond / Circ tripping ubricate Rig Repair Rig Bilip/Cut Line 24 HOUR S From 0:00 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15	3/4 To 3:30 4:00 4:15 9:00 12:00 12:30 12:45 13:45 19:00 19:15 23:45 0:00	Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools OR THE DA Duration 3.50 0.25 4.75 3.00 0.25 4.75 3.00 0.25 1.00 5.25 0.25 4.50	Rig out Flov Air Hamme BOP Drill Rig Service Rebuild Air Make up Ai Safety Mee Blow Hole ( Drill 159mn Safety Mee Drill 159mn	Mix LCM Safety meet Weld on Bowl BOP Drill December wline , Rig in , r Hammer r Hammer , R thing Clean n Hole From 3 ting / Crew C n Hole From 4	1/2 24 er 9, 2005 Air Discharge RIH 326 to 432mt hange	MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 Ev E Line,Blow K	vent	Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	24	(to 24:00)

	ne: Hurric		/hip #1)			REPORT #:	19	DATE:	Decem	ber 11, 2005
DEPTH 24:00:	737	'.0 m	PROGRESS:	191	.0 m	Last 24 Hr Rot	ating Time:	12.25 hr	Ave ROP	> 15.6 m/hr
OPER 06:00:	Drill at 820	m				FOREMAN:	Tom 7	Fargett	MOBILE NO .:	709-689-4601
DAILY COST:			HOLE CND .:	Go	bod	WEATHER:	Cl	ear	TOOLPUSH:	Tom Targett
CUM COST:			RIG / RIG #:	Ingersoll F	Rand RD10	TEMP.:	-3	°C	T.P. MOBILE:	709-649-4957
FORMATION:			K.B. ELEV.:	3.3	3 m	ROADS:	Go	bod		
	BIT PERF	ORMANCE		SUR	VEYS	DRILLIN	G FLUID		PUMPS	S
Bit No.	2			19 m	0.25 °	Time		Pump No.	1	
Size (mm)	159			171 m	2.00 °	Depth(m)		Make	Gardner D	enver
Mfg.	Mission			323 m	3.75 °	Density	air	Model	PY-7	
Туре	Hammer			473 m	4.00 °	Mud Grad		Liner X Stk	6"x 7"	
Serial #	A42766			621 m	5.50 °	Vis		SPM	40	
Nozzles	OPEN			737 m	4.00 °	PV		Pump Eff.	95%	
From (mKB)	326					YP		Pump Rate		
To (mKB)	546 10 3/4					Gels		Pump Press.		
Hrs on Bit						рH		Drillpipe AV		
WOB (daN)	2 20					WL (cc's)		Drillcollar AV		
RPM Condition	20					Filter Cake		Nozzle Vel		
Condition Pulled For?						Sand (%) Solids (%)		M	UD & CHEN	
Meters						Solids (%) Oil (%)		Mud Cycle		min
m/hr						Oll (%) Pf/Mf		Mud Cycle Bottoms Up		min
Cum Hrs						MBT		Bottoms Up Tanks	30	m3
Odini nis						CI (ppm)		Hole Volume	15	m3
BOTTOMH	OLE ASSE			1		Ca (ppm)		System Vol.	45	m3
No.	Item	Max OD	Min ID	Connection	Size & Type	Ca (ppiii)		System vol.		1115
1	Bit	Max OD		2 7/8 IF		-		Mud & Chemio	rals Added:	
2	Stabilizer			2 7/8 IF x 2 7	7/8 IF	Mud Co.				
3				,		Mud Man				
BHA Length:	1	Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:						
Jts DP in hole:		DP on Loc:	128	DP Conn:	-	VOLUMES	M <sup>3</sup>			
DRIFTING	OPERATIO	NS TIME BR	FAKDOWN			Water added		Mud Daily Cos	st	
	OPERATIO	NS TIME BR	EAKDOWN	T		Water added Losses		Mud Daily Cos Mud Cum Cos		
RU / TO		Survey	1	Plug Back		Losses	ITROL	Mud Cum Cos	st	
RU / TO Drill Actual	OPERATION 12 1/4	Survey Logging	1	T		-	ITROL		st	FSI
RU / TO		Survey Logging Run Casing	1	Plug Back Fishing		Losses WELL CON	ITROL	Mud Cum Cos SOLIDS CO	st	FSI
RU / TO Drill Actual Reaming		Survey Logging	1	Plug Back Fishing Work w/Pason		Losses WELL CON RSPP	<b>ITROL</b> 8000	Mud Cum Cos SOLIDS CO Shaker Make	st	FSI
RU / TO Drill Actual Reaming Coring Rm Rathole		Survey Logging Run Casing Cementing	1	Plug Back Fishing Work w/Pason Work Pipe	1/4	Losses WELL CON RSPP ST/Min		Mud Cum Cos SOLIDS CO Shaker Make		T
RU / TO Drill Actual Reaming Coring	12 1/4	Survey Logging Run Casing Cementing WOC	1	Plug Back Fishing Work w/Pason Work Pipe Mix LCM	1/4	Losses WELL CON RSPP ST/Min MACP(kPa)	8000	Mud Cum Cos SOLIDS CO Shaker Make Shaker Mesh		T
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ	12 1/4	Survey Logging Run Casing Cementing WOC NU BOP's	1	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet	1/4	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	8000	Mud Cum Cos SOLIDS C( Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)		T
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig	12 1/4 1/4 8 3/4	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs	1	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	8000 air	Mud Cum Cos SOLIDS C( Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)		T
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig	12 1/4 1/4 8 3/4	Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt	1	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	8000 air 10-Dec-05	Mud Cum Cos SOLIDS C( Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3)		T
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line	12 1/4 1/4 8 3/4	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	2	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs	1/4	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	8000 air 10-Dec-05	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line	12 1/4 1/4 8 3/4 1/4	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	2	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs	1/4 24	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S	12 1/4 1/4 8 3/4 1/4 SUMMARY F	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 8.00	2 NTE : Drill from 5-	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m	1/4 24	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05 2400 hrs)	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:00	12 1/4 1/4 8 3/4 1/4 SUMMARY F To 8:00 8:15	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 8.00 0.25	2 ATE : Drill from 54 Rig service	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m	1/4 24	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05 2400 hrs)	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR \$ From 0:00 8:00 8:15	12 1/4 1/4 8 3/4 1/4 SUMMARY F To 8:00 8:15 12:30	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 8.00 0.25 4.25	2 ATE : Drill from 54 Rig service Drill from 66	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m	1/4 24	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05 2400 hrs)	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR \$ From 0:00 8:00 8:15 12:30	12 1/4 1/4 8 3/4 1/4 SUMMARY F To 8:00 8:15 12:30 12:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 8.00 0.25 4.25 0.25	2 ATE : Drill from 54 Rig service Drill from 66 Safety mee	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 68m to 737m ting	1/4 24	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05 2400 hrs)	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR \$ From 0:00 8:00 8:15 12:30 12:45	12 1/4 1/4 8 3/4 1/4 3UMMARY F To 8:00 8:15 12:30 12:45 13:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools COR THE DA Duration 8.00 0.25 4.25 0.25	2 ATE : Drill from 54 Rig service Drill from 66 Safety mee Circulate ho	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 68m to 737m ting De clean	1/4 24 er 10, 2005	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05 2400 hrs)	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR \$ From 0:00 8:00 8:15 12:30 12:45 13:00	12 1/4 1/4 8 3/4 1/4 <b>SUMMARY F</b> <b>To</b> 8:00 8:15 12:30 12:45 13:00 14:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> <b>Duration</b> 8.00 0.25 4.25 0.25 0.25 1.00	2 ATE : Drill from 54 Rig service Drill from 66 Safety mee Circulate ho Pull out of h	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 68m to 737m ting Die clean nole from 737	1/4 24 rr 10, 2005 m to 550m	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05 2400 hrs)	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 8:10 8:15 12:30 12:45 13:00 14:00	12 1/4 1/4 8 3/4 1/4 3UMMARY F To 8:00 8:15 12:30 12:45 13:00 14:00 14:15	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE DA Duration 8.00 0.25 4.25 0.25 0.25 1.00 0.25	2 TE : Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 68m to 737m ting Die clean nole from 737	1/4 24 rr 10, 2005 m to 550m 2 minutes	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05 2400 hrs)	Mud Cum Cos SoLIDS CC Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days		Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:00 8:15 12:30 12:45 13:00 14:00 14:15	12 1/4 1/4 8 3/4 1/4 3UMMARY F To 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> Duration 8.00 0.25 4.25 0.25 0.25 1.00 0.25 2.50	2 TE: Drill from 5- Rig service Drill from 6 Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 68m to 737m ting Die clean nole from 737 Vell secure in nole from 550	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs -	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:15 12:30 8:15 12:30 12:45 13:00 14:00 14:15 16:45	12 1/4 1/4 8 3/4 1/4 <b>SUMMARY F</b> <b>To</b> 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45 22:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> Duration 8.00 0.25 4.25 0.25 1.00 0.25 2.50 5.25	2 TE : Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f Run in hole	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 58m to 737m ting Die clean nole from 737 Vell secure in nole from 550 hole to 737m	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m n without drill	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Ev	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:00 8:15 12:30 12:45 13:00 14:00 14:15	12 1/4 1/4 8 3/4 1/4 3UMMARY F To 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> <b>Duration</b> 8.00 0.25 4.25 0.25 0.25 1.00 0.25 2.50	2 TE : Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f Run in hole	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 68m to 737m ting Die clean nole from 737 Vell secure in nole from 550	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m n without drill	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Ev	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:15 12:30 8:15 12:30 12:45 13:00 14:00 14:15 16:45	12 1/4 1/4 8 3/4 1/4 <b>SUMMARY F</b> <b>To</b> 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45 22:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> Duration 8.00 0.25 4.25 0.25 1.00 0.25 2.50 5.25	2 TE : Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f Run in hole	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 58m to 737m ting Die clean nole from 737 Vell secure in nole from 550 hole to 737m	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m n without drill	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Ev	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:15 12:30 8:15 12:30 12:45 13:00 14:00 14:15 16:45	12 1/4 1/4 8 3/4 1/4 <b>SUMMARY F</b> <b>To</b> 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45 22:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> Duration 8.00 0.25 4.25 0.25 1.00 0.25 2.50 5.25	2 TE : Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f Run in hole	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 58m to 737m ting Die clean nole from 737 Vell secure in nole from 550 hole to 737m	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m n without drill	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Ev	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:15 12:30 8:15 12:30 12:45 13:00 14:00 14:15 16:45	12 1/4 1/4 8 3/4 1/4 <b>SUMMARY F</b> <b>To</b> 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45 22:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> Duration 8.00 0.25 4.25 0.25 1.00 0.25 2.50 5.25	2 TE : Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f Run in hole	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 58m to 737m ting Die clean nole from 737 Vell secure in nole from 550 hole to 737m	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m n without drill	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Ev	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:15 12:30 8:15 12:30 12:45 13:00 14:00 14:15 16:45	12 1/4 1/4 8 3/4 1/4 <b>SUMMARY F</b> <b>To</b> 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45 22:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> Duration 8.00 0.25 4.25 0.25 1.00 0.25 2.50 5.25	2 TE: Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f Run in hole	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 58m to 737m ting Die clean nole from 737 Vell secure in nole from 550 hole to 737m	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m n without drill	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Ev	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:15 12:30 8:15 12:30 12:45 13:00 14:00 14:15 16:45	12 1/4 1/4 8 3/4 1/4 <b>SUMMARY F</b> <b>To</b> 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45 22:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> Duration 8.00 0.25 4.25 0.25 1.00 0.25 2.50 5.25	2 TE: Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f Run in hole	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 58m to 737m ting Die clean nole from 737 Vell secure in nole from 550 hole to 737m	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m n without drill	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Ev	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line <b>24 HOUR S</b> <b>From</b> 0:00 8:15 12:30 8:15 12:30 12:45 13:00 14:00 14:15 16:45	12 1/4 1/4 8 3/4 1/4 <b>SUMMARY F</b> <b>To</b> 8:00 8:15 12:30 12:45 13:00 14:00 14:15 16:45 22:00 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE DA</b> Duration 8.00 0.25 4.25 0.25 1.00 0.25 2.50 5.25	2 TE: Drill from 5- Rig service Drill from 6i Safety mee Circulate ho Pull out of f BOP drill. V Pull out of f Run in hole	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe 46m to 668m 58m to 737m ting Die clean nole from 737 Vell secure in nole from 550 hole to 737m	1/4 24 rr 10, 2005 m to 550m 2 minutes m to 157m n without drill	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Ev	8000 air 10-Dec-05 2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	St DNTROL Desilter	Centrifuge

Vulca	n Mine	rals						DAI	LY DRILL	ING REPORT	
Well Nam	e: Hurrica	ane #2 (W	hip #1)	ip #1)			20	DATE:	DATE: December 12, 2005		
DEPTH 24:00:			PROGRESS: 198.0 m			REPORT #: 20 DATE: Last 24 Hr Rotating Time: 14.00 hr			Ave ROP 14.1 m/hr		
OPER 06:00:	PER 06:00: Wait on loggers				FOREMAN: Tom T			MOBILE NO .:	709-689-4601		
DAILY COST:			HOLE CND.:	Go		WEATHER:	Cle		TOOLPUSH:	Tom Targett	
CUM COST:			RIG / RIG #:	Ingersoll R	and RD10	TEMP.:	1°		T.P. MOBILE:	709-649-4957	
FORMATION:			K.B. ELEV.: 3.3 m		ROADS:	Gc	od	l	<b>1</b>		
								<u> </u>			
	BII PERF		I	<b>SURVEYS</b> 19 m 0.25 °		DRILLIN			PUMP	5	
Bit No. Size (mm)	2 159			19 m 171 m	0.25 2.00 °	Time Depth(m)		Pump No. Make	Gardner D	enver	
Mfg.	Mission			323 m	2.00 3.75 °	Density	air	Model	PY-7		
Туре	Hammer			473 m	4.00 °	Mud Grad		Liner X Stk	6"x 7"		
Serial #	A42766			621 m	5.50 °	Vis		бРМ	40		
Nozzles	OPEN			737 m	4.00 °	ΡV		Pump Eff.	95%		
From (mKB)	326					YP		Pump Rate			
To (mKB)	546					Gels		Pump Press.			
Hrs on Bit	10 3/4					рН		Drillpipe AV			
WOB (daN)	2 20					WL (cc's)		Drillcollar AV			
RPM Condition	×0					Filter Cake Sand (%)		Nozzle Vel			
Pulled For?						Solids (%)		M	UD & CHEN	MICALS	
Meters						Dil (%)		Mud Cycle	0	min	
m/hr						Pf/Mf		Bottoms Up	0	min	
Cum Hrs						мвт		Tanks	30	m3	
	L			J		CI (ppm)		Hole Volume	19	m3	
	OLE ASSEN					Ca (ppm)		System Vol.	49	m3	
No.	Item	Max OD	Min ID	Connection S	Size & Type						
1	Bit	0		2 7/8 IF 2 7/8 IF x 2 7	/0 IF			Mud & Chemic	cals Added:		
2	Stabilizer	0				Mud Co. Mud Man					
BHA Length:		Hook Load:		DP size	l	Mud Up @					
Avail WOB:		Jts DP Racks		DC Conn:		linda op @					
		1	128			VOLUMES	M <sup>3</sup>				
Jts DP in hole:	OPERATIO	DP on Loc:	1	DP Conn:		Water added	141	Mud Daily Cos	·+	\$0	
RU / TO		Survey		Plug Back		Losses		Mud Cum Cos		<u>\$0</u>	
Drill Actual	14	Logging		Fishing		WELL CON	TROL	SOLIDS CO			
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI	
Coring		Cementing		Work Pipe		БT/Min		Shaker Mesh		0	
Rm Rathole		woc		Mix LCM		MACP(kPa)	8000		Desilter	Centrifuge	
Cond / Circ		NU BOP's		Safety meet	1/4	Calc Hole Fill	air	Vol UF (l/min)			
Tripping	3 3/4	Test BOPs		Weld on Bowl		Act Hole Fill	10 0 05	U.F. (kg/m3)			
Lubricate Rig	1/2	Drill Out Cmt		BOP Drill	2	_st BOP Drill:	10-Dec-05	11			
Repair Rig	2.1/2	DST		Wait on Loggers	3 24 0		1	Hours/Days Boiler Hrs:	4	(4- 04-00)	
MU/LD BHA	2 1/2	Hndle Tools		Total Hrs		(0000 have a			. <del>,</del>	(to 24:00)	
24 HOUR S	UMMARY F	OR THE DA		Decembe	r 11, 2005	(0000 hrs - 2	2400 hrs) vent				
0:00	0:15	0.25	Run in hole	from 700m to	o 737m	C1	GIIL				
0:15	3:15	3.00		ole section fro		76m		ana na sa	·····		
3:15	3:30	0.25	Rig service						· · · · ·		
3:30	14:30	11.00	the second design of the secon	ole section fro	om 776m to 9	935m.					
14:30	14:45	0.25	Rig Service								
14:45	15:00	0.25	Safety Mee								
15:00	18:30	3.50		nole from 935							
18:30	19:30	1.00		mmer out and tabilizer and b				o comencer and a state of the			
<u>19:30</u> 21:00	21:00 0:00	1.50 3.00		gers. Shut in			2		<u></u>		
21.00	0.00	0.00		goro, onucin		nor prosourt					
	1		1								
	l		L				1020212405/202.a		,		
24 HOUR F	orcast :							······································			
Maitan	00m Cam-1	oto winon tel									
	ueis, como	ete wiper tri									

Well Name: Hurricane #2 (Whip #1)         REPORT #:         21           DEPTH 24:00:         935.0 m         PROGRESS:         Last 24 Hr Rotating Time:           OPER 06:00:         Run in with wireline tools         FOREMAN:         Tom Tar           DAILY COST:         HOLE CND.:         Good         WEATHER:         Clea           CUM COST:         RIG / RIG #:         Ingersoll Rand RD10         TEMP.:         1°C           FORMATION:         K.B. ELEV.:         3.3 m         ROADS:         Good		Decem	ING REPORT
OPER 06:00:         Run in with wireline tools         FOREMAN:         Tom Tar           DAILY COST:         HOLE CND.:         Good         WEATHER:         Clea           CUM COST:         RIG / RIG #:         Ingersoll Rand RD10         TEMP.:         1°C	DATE:		ber 13, 2005
DAILY COST:         HOLE CND.:         Good         WEATHER:         Clea           CUM COST:         RIG / RIG #:         Ingersoll Rand RD10         TEMP.:         1°C	Ave ROP		709-689-4601
CUM COST: RIG / RIG #: Ingersoll Rand RD10 TEMP.: 1°C	v	MOBILE NO.: TOOLPUSH:	Tom Targett
5			
FORMATION: K.B. ELEV.: 5.5 III ROADS: GOOD		T.P. MOBILE:	709-649-4957
	u		
		DUMD	
BIT PERFORMANCE         SURVEYS         DRILLING FLUID           Bit No.         19 m         0.25 °         Time         Put	unu Ma	PUMP:	5
	ump No. ake	Gardner D	onvor
	odel	PY-7	enver
	ner X Stk	6"x 7"	
Serial # 621 m 5.50 ° Vis SP		40	
	ump Eff.	95%	
	ump Rate		
	ump Press.		
	rillpipe AV		
	rillcollar AV		
	ozzle Vel		
Condition Sand (%)			
Pulled For? Solids (%)	MU	JD & CHEM	<b>/ICALS</b>
	ud Cycle		min
m/hr Pt/Mf Bo	ottoms Up		min
Cum Hrs MBT Ta	anks	30	m3
CI (ppm) Ho	ole Volume	19	m3
BOTTOMHOLE ASSEMBLY Ca (ppm) Sy	/stem Vol.	49	m3
No. Item Max OD Min ID Connection Size & Type			
1 Bit 2 7/8 IF	ud & Chemic	als Added:	
2 Stabilizer 2 7/8 IF x 2 7/8 IF Mud Co.			
3 Mud Man			
BHA Length: Hook Load: DP size Mud Up @			
Avail WOB: Jts DP Racks DC Conn:			
Jts DP in hole: DP on Loc: 128 DP Conn: VOLUMES M <sup>3</sup>			
DRILLING OPERATIONS TIME BREAKDOWN Water added	ud Daily Cost	t	
	ud Cum Cost		
Drill Actual Logging Fishing WELL CONTROL S	OLIDS CO	NTROL	
	haker Make		FSI
	haker Mesh		1
Rm Rathole         WOC         Mix LCM         MACP(kPa)         8000		Desilter	Centrifuge
	ol UF (l/min)		
	.F. (kg/m3)		
Lubricate Rig         1/4         Drill Out Cmt         BOP Drill         1/2         Lst BOP Drill:         12-Dec-05         O.			
	ours/Days		(, , , , , , , , , , , , , , , , , , ,
	oiler Hrs:		(to 24:00)
24 HOUR SUMMARY FOR THE DATE : December 12, 2005 (0000 hrs - 2400 hrs)			
From To Duration Event			
0:00 8:00 8.00 Wait on loggers			
8:00         8:30         0.50         BOP drill while out of hole           9:30         11:30         2:00         Wait on loggers			
8:30 11:30 3.00 Wait on loggers			
11:20 12:00 0.50 Clean airculating tank and fill hale with fluid			
11:30     12:00     0.50     Clean circulating tank and fill hole with fluid       12:00     14:30     2.50     Bun in hole with tricone to 323m fill hole with fluid			
12:00 14:30 2.50 Run in hole with tricone to 323m, fill hole with fluid			
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank			
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting			
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service			
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service           18:30         19:00         0.50         Fill mud tanks with fresh water. Fluid level stable in hole.			
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service           18:30         19:00         0.50         Fill mud tanks with fresh water. Fluid level stable in hole.			
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service           18:30         19:00         0.50         Fill mud tanks with fresh water. Fluid level stable in hole.           19:00         20:45         1.75         Run in hole from 323m to 935m TD. 1m of fill           20:45         21:00         0.25         Circulate hole clean	t ram.		
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service           18:30         19:00         0.50         Fill mud tanks with fresh water. Fluid level stable in hole.           19:00         20:45         1.75         Run in hole from 323m to 935m TD. 1m of fill           20:45         21:00         0.25         Circulate hole clean	t ram.		
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service           18:30         19:00         0.50         Fill mud tanks with fresh water. Fluid level stable in hole.           19:00         20:45         1.75         Run in hole from 323m to 935m TD. 1m of fill           20:45         21:00         0.25         Circulate hole clean	t ram.		
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service           18:30         19:00         0.50         Fill mud tanks with fresh water. Fluid level stable in hole.           19:00         20:45         1.75         Run in hole from 323m to 935m TD. 1m of fill           20:45         21:00         0.25         Circulate hole clean	t ram.		
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service           18:30         19:00         0.50         Fill mud tanks with fresh water. Fluid level stable in hole.           19:00         20:45         1.75         Run in hole from 323m to 935m TD. 1m of fill           20:45         21:00         0.25         Circulate hole clean	t ram.		
12:00         14:30         2.50         Run in hole with tricone to 323m, fill hole with fluid           14:30         18:00         3.50         Clean circulating tank           18:00         18:15         0.25         Safety meeting           18:15         18:30         0.25         Rig service           18:30         19:00         0.50         Fill mud tanks with fresh water. Fluid level stable in hole.           19:00         20:45         1.75         Run in hole from 323m to 935m TD. 1m of fill           20:45         21:00         0.25         Circulate hole clean	t ram.		
12:00       14:30       2.50       Run in hole with tricone to 323m, fill hole with fluid         14:30       18:00       3.50       Clean circulating tank         18:00       18:15       0.25       Safety meeting         18:15       18:30       0.25       Rig service         18:30       19:00       0.50       Fill mud tanks with fresh water. Fluid level stable in hole.         19:00       20:45       1.75       Run in hole from 323m to 935m TD. 1m of fill         20:45       21:00       0.25       Circulate hole clean         21:00       0:00       3.00       Pull out of hole. Drill string torqued up and trouble with break out	t ram.		

Well Name: Hurricane #2 (Whip #1)						REPORT #: 22 DATE:			December 14, 2005		
DEPTH 24:00:	935	5.0 m	PROGRESS				Last 24 Hr Rotating Time:		Ave ROP	Ave ROP	
OPER 06:00:	Wait on Cement					FOREMAN: TOM		Targett	MOBILE NO .:	709-689-4601	
DAILY COST:			HOLE CND.:	Go	bod	WEATHER:	C	lear	TOOLPUSH:	Tom Targett	
CUM COST:			RIG / RIG #:	•	Rand RD10	TEMP.:		°C	T.P. MOBILE:	709-649-4957	
FORMATION:			K.B. ELEV.:	3.3	3 m	ROADS:	G	ood			
				I <u> </u>		1		1r			
	BIT PERF	ORMANCE			VEYS		IG FLUID		PUMPS	6	
Bit No.				19 m 171 m	0.25 ° 2.00 °	Time		Pump No.	Gardner De	nvor	
Size (mm) Mfg.				323 m	2.00 3.75 °	Depth(m) Density		Make Model	PY-7	enver	
туре				473 m	4.00 °	Mud Grad		Liner X Stk	6"x 7"		
Serial #				621 m	5.50 °	Vis		SPM	40		
Nozzles				737 m	4.00 °	PV		Pump Eff.	95%		
From (mKB)				929 m	3.75 °	YP		Pump Rate			
To (mKB)						Gels		Pump Press.			
Hrs on Bit						pН		Drillpipe AV			
WOB (daN)						WL (cc's)		Drillcollar AV			
RPM						Filter Cake		Nozzle Vel			
Condition						Sand (%)					
Pulled For?						Solids (%)			UD & CHEN	IICALS	
Meters						Oil (%)		Mud Cycle		min	
m/hr						Pf/Mf		Bottoms Up		min	
Cum Hrs						MBT		Tanks		m3	
DOTTOM						CI (ppm)		Hole Volume		m3	
	OLE ASSE	Max OD	Min ID	Connection		Ca (ppm)		System Vol.		m3	
<u>No.</u> 1	Item Bit	Max OD	Min ID	2 7/8 IF	Size & Type			Mud & Chemi	oolo Addadu		
2	Stabilizer			2 7/8 IF x 2 7	7/8 IF	Mud Co.			cais Added.		
3	Otabilizer			21/011 X21	//0 II	Mud Oo. Mud Man					
BHA Length:		Hook Load:		DP size		Mud Up @					
Avail WOB:		Jts DP Racks		DC Conn:	-						
Jts DP in hole:		DP on Loc:	128	DP Conn:		VOLUMES	M <sup>3</sup>				
	OPERATIO					Water added		Mud Daily Co	st		
RU / TO		Survey	1	Plug Back		Losses		Mud Cum Cost			
Drill Actual		Logging	8 1/4	Fishing		WELL COM	ITROL	SOLIDS C	ONTROL		
Reaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI	
Coring		Cementing		Work Pipe		ST/Min		Shaker Mesh			
Rm Rathole		WOC	5	Mix LCM		MACP(kPa)			Desilter	Centrifuge	
Cond / Circ	1 3/4	NU BOP's		Safety meet		Calc Hole Fill		Vol UF (l/min)			
Tripping	7	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)			
Lubricate Rig	1/2	Drill Out Cmt		BOP Drill	1/2	Lst BOP Drill:		O.F. (kg/m3)			
Repair Rig		DST				Calc Hole Fill		Hours/Days			
Slip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)	
			ATE :	Decembe	r 13, 2005	(0000 hrs -	,				
From	<b>To</b>	Duration	Pig Sonder			E	vent				
0:00	0:15	0.25	Rig Service	/ hile Tripping							
0:15	4:45	4.00	Pull Out Of	11 8							
4:45	12:00	7.25		Run Wire Lir	e   onas With	n Baker					
12:00	13:00	1.00	<b>v</b> .	d Lay Down L							
13:00	13:15	0.25	v	, Function Bl	00 0						
13:15	16:15	3.00	RIH open E								
16:15	16:45	0.50	Break Circu								
	17:45	1.00		29 Mtrs , 3.7	5 Degrees		·				
16:45		1.25	Circulate								
16:45 17:45	19:00			/light							
16:45	19:00 0:00	5.00	Wait on day								
16:45 17:45											
16:45 17:45	0:00										

	ne: Hurric	ane #2 (W	/hip #1)			REPORT #	23	DATE:	Decem	ber 15, 2005
DEPTH 24:00:				RESS: #VALUE!		Last 24 Hr Rotating Time:			Ave ROF	
OPER 06:00:				#VALUE:				Targett	MOBILE NO .:	709-689-4601
DAILY COST:			HOLE CND.: Good				izzle	TOOLPUSH:	Tom Targett	
CUM COST:			RIG / RIG #:	Indersoll F	Rand RD10	TEMP.:				709-649-4957
ORMATION:		K.B. ELEV.:	•	3 m	ROADS:		8°C T.P. MOBILE: 709-649-49 ippery			
				0.0		110/12/0.	0.1	spoly		
		ORMANCE		SUR	VEYS		IG FLUID	1	PUMP	\$
Bit No.				19 m	0.25 °	Time		Pump No.	FUNIE	5
Size (mm)				171 m	0.20 2.00 °	Depth(m)		Make		
Mfg.				323 m	2.00 3.75 °	Deptil(iii) Density		Model		
туре				473 m	4.00 °	Mud Grad		Liner X Stk		
Serial #				621 m	5.50 °	Vis		SPM		
Nozzles				737 m	4.00 °	PV		Pump Eff.		
From (mKB)				929 m	3.75 °	YP		Pump Rate		
To (mKB)				020 111	0.10	Gels		Pump Press.		
Hrs on Bit						pH		Drillpipe AV		
WOB (daN)						WL (cc's)		Drillcollar AV		
RPM						Filter Cake		Nozzle Vel		
Condition						Sand (%)				
Pulled For?						Solids (%)		м	UD & CHEN	MICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
ounning						CI (ppm)		Hole Volume	#VALUE!	
BOTTOMH	OLE ASSEI			IL		Ca (ppm)			#VALUE!	
No.	Item	Max OD	Min ID	Connection	Size & Type	Ca (ppm)		System Vol.	#VALUE!	mə
1	Bit	IVIAX OD		2 7/8 IF	Size & Type			Mud & Chemio	oolo Addad:	
2	Stabilizer			2 7/8 IF x 2	7/8 IF	Mud Co.		widd & Chernic	Lais Auueu.	
3	Otabilizer			21/011 ×2	7/0 11	Mud Co. Mud Man				
BHA Length:		Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	-	Muu op e				
			450		-		M <sup>3</sup>	-		
Jts DP in hole:		DP on Loc:	152	DP Conn:		VOLUMES	141	-		
DRIFTING						Motor addad		Mud Daily Cor	st	
	OPERATIO	NS TIME BR	EAKDOWN			Water added		Mud Daily Cos		
RU / TO	OPERATIO	NS TIME BR	EARDOWN	Plug Back		Losses		Mud Cum Cos	st	
RU / TO Drill Actual	OPERATIO	Survey Logging		Plug Back Fishing		Losses WELL COM	NTROL	Mud Cum Cos SOLIDS CO	st	501
RU / TO Drill Actual Reaming		Survey Logging Run Casing		Plug Back Fishing Work w/Pason		Losses WELL CON RSPP	NTROL	Mud Cum Cos SOLIDS CO Shaker Make	st	FSI
RU / TO Drill Actual Reaming Coring		Survey Logging Run Casing Cementing		Plug Back Fishing Work w/Pason Work Pipe		Losses WELL CON RSPP ST/Min	NTROL	Mud Cum Cos SOLIDS CO	ontrol	
RU / TO Drill Actual Reaming Coring Rm Rathole		Survey Logging Run Casing Cementing WOC		Plug Back Fishing Work w/Pason Work Pipe Mix LCM		Losses WELL CON RSPP ST/Min MACP(kPa)	NTROL	Mud Cum Cos SOLIDS CO Shaker Make Shaker Mesh	st	FSI Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ		Survey Logging Run Casing Cementing WOC NU BOP's		Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet		Losses WELL COM RSPP ST/Min MACP(kPa) Calc Hole Fill	NTROL	Mud Cum Cos SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	ontrol	
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping		Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs		Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl		Losses WELL COM RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	VTROL	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	ontrol	
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig		Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt		Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	NTROL	Mud Cum Cos SOLIDS C( Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3)	ontrol	
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig		Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST		Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	NTROL	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig		Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt		Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	NTROL	Mud Cum Cos SOLIDS C( Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3)	ontrol	
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line		Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools		Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs	r 14, 2005	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill		Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From	SUMMARY F	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration	ATE :	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe	,	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -		Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00	SUMMARY F To 10:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE D/ Duration 10.00	ATE : Wait on Ce	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou	, ut	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Silip/Cut Line 24 HOUR S From 0:00 10:00	SUMMARY F To 10:00 10:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools OR THE D/ Duration 10.00 0.75	ATE : Wait on Ce Set Cemen	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935	, ut	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45	SUMMARY F To 10:00 10:45 12:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00	ATE : Wait on Ce Set Cemen POOH to 32	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs	ut mtrs,2.5Cube	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45	SUMMARY F To 10:00 10:45 12:45 13:15	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @	ut mtrs,2.5Cube	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45	SUMMARY F To 10:00 10:45 12:45 13:15	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Bilp/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Fripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Bilp/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Blip/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Bilp/Cut Line 24 HOUR S From 0:00 10:00 10:45 12:45 13:15	SUMMARY F To 10:00 10:45 12:45 13:15 13:45	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
RU / TO Drill Actual Reaming Coring Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Slip/Cut Line 24 HOUR S From 0:00 10:00 10:00 10:45 12:45 13:15 13:45	SUMMARY F To 10:00 10:45 12:45 13:15 13:45 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>COR THE D/</b> Duration 10.00 0.75 2.00 0.50	ATE : Wait on Ce Set Cemen POOH to 33 Set Cemen POOH to 15	Plug Back Fishing Work w/Pason Work Pipe Mix LCM Safety meet Weld on Bowl BOP Drill Total Hrs Decembe ment / Rig Ou t Plug @ 935 27mtrs t Plug # 2 @ 52mtrs	ut mtrs,2.5Cube 338mtrs,1.50	Losses WELL COP RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - E es,15.2ppg,2	2400 hrs) vent	Mud Cum Cos SOLIDS CC Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	ontrol	Centrifuge
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Init New-	n Mine		hin #1)			[	<u></u>	I		ING REPOP
	e: Hurric	ane #2 (W		0.0	~	REPORT #:	24	0.00 hr	Ave ROI	ber 16, 2005
EPTH 24:00:	Wait on Da	diabt	PROGRESS:	0.0	[[]]	Last 24 Hr Rota FOREMAN:		Targett	MOBILE NO.:	709-689-460
	Wall Off Da	yiigint	HOLE CND.:		· · · · · · · · · · · · · · · · · · ·	WEATHER:		lear	TOOLPUSH:	Tom Targett
ALY COST:				In stars all D	and DD40	1		l°C	ſ	709-649-495
JM COST:			RIG / RIG #:	Ingersoll R		TEMP.:			T.P. MOBILE:	709-049-495
ORMATION:			K.B. ELEV.:	3.3	<u></u>	ROADS:		opery		-
				SUR\				1	PUMPS	S
1 NI-		ORMANCE		19 m	0.25 °	Time	GFLUID	Pump No.	r Own v	5
t No. ze (mm)				171 m		Depth(m)		Make		
2e (1111) fg.				323 m		Density		Model		
ype				473 m	4.00 °	Mud Grad		Liner X Stk		
erial #				621 m	5.50 °	Vis		SPM		
ozzles				737 m	4.00 °	PV		Pump Eff.		
om (mKB)				929 m	3.75 °	YP		Pump Rate		
o (mKB)						Gels		Pump Press.		
s on Bit						рн		Drillpipe AV		
OB (daN)						WL (cc's)		Drillcollar AV		
эм						Filter Cake		Nozzle Vel		
ondition						Sand (%)		l.		
lled For?						Solids (%)		M	UD & CHEN	VIICALS
eters						Dil (%)		Mud Cycle	0	min
'nr			l			Pf/Mf		Bottoms Up	0	min
um Hrs						мвт		Tanks	1	m3
				J		CI (ppm)		Hole Volume	0	m3
оттомн	OLE ASSE	ABLY				Ca (ppm)		System Vol.	0	m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1	Bit	C		2 7/8 IF				Mud & Chemie	cals Added:	
2	Stabilizer	<u> </u>		2 7/8 IF x 2 7	/8 IF	Mud Co.				
3		0 0	(	)		Mud Man				i.
HA Length:	10-00-00-00-00-00-	Hook Load:		DP size		Mud Up @				. tani
vail WOB:		Jts DP Racks		DC Conn:						
s DP in hole:		DP on Loc:	128	DP Conn:		VOLUMES	M <sup>3</sup>			NC
	OPERATIO	NS TIME BR	EAKDOWN			Water added		Mud Daily Co	st	<u>\$0</u>
J/TO	5 1/4	Survey		Plug Back		Losses		Mud Cum Cos	it	\$0
ill Actual		Logging		Fishing		WELL CON	TROL	SOLIDS CO	ONTROL	
eaming		Run Casing		Work w/Pason		RSPP		Shaker Make		FSI
oring		Cementing	1/2	Work Pipe		ST/Min		Shaker Mesh		0
m Rathole		woc	4	Mix L.CM		MACP(kPa)			Desilter	Centrifuge
ond / Circ		NU BOP's		Safety meet	1/4	Calc Hole Fill		Vol UF (I/min)		
ipping	1	Test BOPs		Weld on Bowl		Act Hole Fill		U.F. (kg/m3)		
ibricate Rig		Drill Out Cmt		BOP Drill		.st BOP Drill:		D.F. (kg/m3)		
epair Rig	1	DST		Wait on Daylight	13	Calc Hole Fill		Hours/Days		
ip/Cut Line		Hndle Tools		Total Hrs	24	Act Hole Fill		Boiler Hrs:		(to 24:00)
4 HOUR S	UMMARY I	OR THE DA	TE :	Decembe	r 15, 2005	(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0:00	5:00	5.00	Wait on Da							
5:00	6:00	1.00	RIH , Tag (	Cement @ 290	mtrs , POOF	TO 58mtrs				
6:00	10:00	4.00	Wait on Ce							
10:00	10:15	0.25	Safety Mee	ting						
10:15	10:45	0.50	S.	p Plug,Pump	.50 Cubes of	water ,.50 C	ubes cemei	nt ,15.2ppg ,2	20mpa Displ	lace Pipe
10:45	12:00	1.25	Nipple Dow							
12:00	16:00	4.00		Inspect BOP's	, Make read	y to Ship to S	st.John's, Lo	oad Pipe Trai	ler for Store	age in
	<u> </u>		Harvey's Ya							
	0:00	8.00	Wait on Da	ylight	uuu aaaaa kaaaawaa kaaaa					
16:00	84									
16:00			3							
16:00										
16:00										
16:00										
16:00		-								
16:00										
16:00										