# **Final Well Report**

Revision:	Version 0	
Operating Company:	Vulcan Minerals Inc. (Investcan Energy	
	Corp)	
Hole Name:	Flat Bay Test Hole # 9	
Rig:	Duralite 800	
Field:	Flat Bay	
Location:	Western Newfoundland, Canada	
Date:	March 27 <sup>th</sup> , 2012	
Revised On:	N/A	

Prepared by:	Reviewed by:
Elliott Stuckless	Patrick Laracy, P.Geo.
Vulcan Minerals	Vulcan Minerals
Date:	Date:

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# Appendicis

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### 1.0 Introduction

Flat Bay Test Hole #9 was operated by Vulcan Minerals Inc. - Investcan Energy Corp. Joint Venture and drilled by Logan Drilling Limited utilizing a Duralite 800 Core Drilling Rig. The test hole was spudded on November 1<sup>st</sup>, 2011 and the rig was subsequently released November 4<sup>th</sup>, 2011 upon completion of the hole.

The purpose of the hole was to acquire reservoir information in regards to the commercial viability of a hydrocarbon bearing formation identified in the Flat Bay area from the previous drilling at Flat Bay. In particular, preserved core is desired to measure and/or determine reservoir parameters such as in-situ fluid contents and physical properties, rock properties such as porosity, permeability and any related information available from laboratory analysis regarding reservoir properties of the cored interval. Other wells drilled within the basin by Vulcan Minerals Inc. (i.e. Flat Bay #1) had encountered significant oil in a relatively thick sequence of sandstone and conglomerate (Fishell's Brook Formation).

As predicted the hole penetrated a thick sequence of anhydrite, a thin interval of Ship Cove limestone followed by the target reservoir formation, conglomerate and sandstone of the Anguille Group. No oil shows were visible in the reservoir section, however minor Live oil was observed weeping out of fractures in the basement rock.

### 2.0 General Information

The drill site is located just northwest of the former gypsum quarry. Stephenville, the regional service center for the area is approximately 30 km from the site.

### Well Name

Vulcan - Investcan Flat Bay Test Hole #9

### 2.1 Map



# **Exploration Permit**

The well was drilled on exploration Permit 03 – 106 under the authority of Drilling Program Approval (DPA) # 2011-116-02 and Authority to Drill a Well (ADW) # 2011-116-02-03, both issued on October 18<sup>th</sup>, 2011 (Appendix I).

# Location Co-ordinates

The NAD 27 UTM co-ordinates of the well are as follows:

Northing:	5360176.766 m N
Easting:	383666.632 m E
Elevation:	16.39m

The survey was carried out by R. Davis Surveys Ltd. of Stephenville Crossing using differential GPS surveying equipment and techniques (Appendix VIII).

# 2.2 Difficulties and Delays

Difficulties encountered while drilling were as follows:

• No difficulties or delay were encountered while drilling FBTH # 9.

# 3.00 Drilling Operations

A summary of the daily drilling operations are contained in Appendix II – Daily Drilling Reports.

# 3.1 Elevation

Elevations for the entire hole were measured from the bottom edge of the surface casing and are above mean sea level as follows:

Ground – 16.39 m Casing – 17.39 m

# 3.2 Total Depth

The following depths are measured from the top of casing: Total drilled depth – 159.0 m Total Vertical Depth – 159.0 m

# 3.3 Spud Date

The well was spudded November 1<sup>st</sup>, 2011

# 3.4 Date Drilling Completed

The well ceased drilling on November 4<sup>th</sup>, 2011

# 3.5 Rig Release Date

The drilling rig was released on November 5<sup>th</sup>, 2011

# 3.6 Well Status

The well was abandoned at 159.0m. The hole was completely filled with cement while the rods were pulled out of the hole from 159.0m to surface. The casing was cut 1 m below ground level. The well head was then marked by a large boulder.

# 3.7 Hole Sizes and Depth

The following depths are measured from top of surface casing and hole sizes are outside diameters (O.D. (mm)).

Hole Section	<u>Size (mm)</u>	<u>Depth (m)</u>
Surface	91.7 (NW)	28.0
Main	75.7 (NQ)	159.0

# 3.8 Bit Records

The surface hole was drilled with one 91.7 mm (NW) diamond casing shoe bit. The main hole was drilled with two 75.7 mm (NQ) diamond-drilling bits. Depths in and out of each bit as well as type and serial # are outlined in Appendix III.

# 3.9 Casing and Cementing Record

The drilling program used NW shoe bit, advanced with NW core. The casing used for the surface/conductor pipe was NW casing, 88.9 mm – 12.8 kg/m3 with a NW shoe placed at 28m. 28 meters of NW casing set in hole (Appendix XI).

The NW casing was cemented with 0.1  $\text{m}^3$  of Class A Portland Cement at a density of 1820 kg/m<sup>3</sup>, no cement returns were observed at surface, additional cement was poured from surface to stabilize the top of the casing. Cement was tagged in the casing from 23-28 m.

# 3.10 Side-tracked Hole

Not applicable (N/A)

# 3.11 Drilling Fluid

The drilling fluids consisted of fresh water. Entirety of the hole was drilled with fluid densities approximately equal to fresh water 1000 kg/m3.

# 3.12 Fluid Disposal

Drilling fluid was disposed of by Logan Drilling in compliance with government regulations.

# 3.13 Fishing Operations

No fishing operations were conducted on this particular well.

# 3.14 Well Kicks

There were no kicks encountered during drilling of test hole.

### 3.15 Formation Leak – Off Tests

There was no Formation Leak – Off Tests performed during drilling of hole.

### 3.16 Time Distribution

<u>Activity</u>	<u>Total Hours</u>
Drilling	42
Site Mob/Demob	16.5
Rig Repairs	1.5
Circulating	0
Tripping	0
Cementing	7.5
Wait on Cement	12
Drill Out Cement	2
Survey	0
Casing Preparation	2.5
BOP Rig Up / Tests	1
Wait on Parts	0
Stand By	0

# 3.17 Deviation Plot

Not applicable (N/A)

# 3.18 Suspension Program

Not applicable

# 3.19 Well Schematic

A detailed well schematic containing pertinent well bore information is attached (Appendix XI).

# 3.20 Fluid Samples

No formation fluid samples were taken.

# 3.21 Composite Well Record

A composite Well Record is included as Appendix IV.

### 4.00 Geology

### 4.1 Drill Cuttings

No cuttings were taken because entire hole from bedrock surface to total depth was cored.

### 4.2 Cores

The entire hole from bedrock surface to total depth was cored. Practically one hundred percent core recovery was achieved. Drill core not sent for analysis is stored at Vulcan Minerals Inc. storage warehouse in Stephenville, Newfoundland and Labrador. All core boxes are numbered sequentially and marked with respective depth intervals (Appendix VI).

# 4.3 Lithology

A detailed description of drill core was compiled and is included in Appendix VII. Roland Strickland under contract to Vulcan Minerals Inc. provided geological descriptions of all drill cores.

# 4.4 Stratigraphic Column

A stratigraphic column chart is attached as Appendix V.

# 4.5 Biostratigraphic Data

No biostratigraphic analysis has been carried out on core samples.

### 5.0 Well Evaluation

### 5.1 Downhole Logs

There were no downhole logging operations conducted.

# 5.2 Other Logs

There were no other downhole logging operations conducted.

# 5.3 Synthetic Seismogram

Not applicable

# 5.4 Vertical Seismic Profile

Not applicable

### 5.5 Velocity Surveys

Not applicable

### 5.6 Formation Stimulation

Not applicable

### 5.7 Formation Flow Tests

Not applicable

# 6.0 Other Data

### 6.1 Mud Loggers Report

Not applicable

# 6.2 Directional and Deviation Survey

Not applicable

# 6.3 Final Legal Survey

The final legal survey as carried out by R. Davis Surveys Ltd. is contained in Appendix VIII.

### 6.4 Core Photos

Core photos are contained in Appendix IX.

# 6.5 Core Analysis Report

Core analysis report is contained in Appendix X.

# 6.6 Fluid Analysis Report(s)

Not Applicable.

# 6.7 Oil, Gas and Water Analysis Report(s)

Not Applicable.

# 6.8 Geochemical, Biostratigraphic, Petrological, Palynogical Paleontological Reports

The stratigraphic control of this well is considered excellent with 100% core recovery and geological descriptions of lithologies intersected paired with known lithological data from offset wells.

# 6.9 Well Termination Report

A well termination program is included in Appendix XI of this report.

Appendix I Authority to Drill Well



Government of Newfoundland and Labrador Department of Natural Resources August 19<sup>th</sup>, 2011 Cover de to Cover de t

Mr. Patrick Laracy, President Vulcan Minerals Inc. 333 Duckworth Street St. John's, NL, A1C 1G9

Dear Mr. Laracy:

### RE: Drilling Program Approval and Authority to Drill a Well for Vulcan Minerals Flat Bay Test Holes #4, #5, #6, #7 and #8

Please find attached the following executed documents:

Drilling Program Approval (DPA 2011-116-01); Authority to Drill a Well (ADW 2011-116-01-01); Authority to Drill a Well (ADW 2011-116-01-02); Authority to Drill a Well (ADW 2011-116-01-03); Authority to Drill a Well (ADW 2011-116-01-04); Authority to Drill a Well (ADW 2011-116-01-05).

These documents contain attached conditions. Please review these conditions and ensure that they are prominently displayed at the wellsite at all times.

Thank you for your interest in western Newfoundland and good luck with your exploration efforts.

Yours sincerely,

hing lagens

Keith Hynes, P. Eng. Director Petroleum Engineering



#### DRILLING PROGRAM APPROVAL - APPLICATION

Pursuant to sections 8 and 9 of the Petroleum and Natural Gas Act(1.), Vulcan Minerals Inc.	
as operator on behalf of Vulcan Minerals Inc. & Investean Energy Corp. Joint Venture ,	holding a
subsisting licence, permit or lease issued pursuant to the Petroleum Regulations(2), namely; 03-106 & 96-105	
(licence, permit, or lease	e #)
hereby applies for approval to conduct a drilling program using the drilling rig	
and equipment and procedures described in the detailed program dated . [13-Jun-2011	
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.	
$- \alpha \beta \alpha \beta$	
Signed: Date: 16-Jun-2011	
APPROVAL	
Pursuant to sections 8 and 9 of the Petroleum and Natural Gas Act, the operator named in the Application is hereby	
authorized to conduct the proposed drilling program subject to the following conditions:	
1. This Drilling Program Approval shall, unless otherwise extended or terminated, expire upon the 31 day of August	,20 12
2. This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;	
<ol> <li>Evidence of financial responsibility, as required pursuant to Section 14 of the Petroleum Drilling Regulations (3), shall be provided by the operator to the Minister of Natural Resources;</li> </ol>	
4. The operator shall use the equipment and procedures described in the detailed program dated 201-06-13	
unless a change in the equipment of 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: Mate Effective Date: 2011-08-19	
Drilling Program Approved No. 2011-116-01	
(1) - (R.S.N.L. 1990, c. P-10)	
(2) - CNR 1151/96	
(3) - CNR 1150/96	

Revised January 2007 FRM-64

#### SCHEDULE "A"

#### <u>TO</u>

#### DRILLING PROGRAM APPROVAL #2011-116-01

#### OTHER CONDITIONS

- 1. Notwithstanding condition # 4 of the Approval (see previous page), the Operator shall comply with the requirements of the *Petroleum Drilling Regulations* (the Regulations) unless the Operator has received written approval from the Director to deviate from the Regulations.
- 2. Pursuant to Section 154 of the Regulations, the director shall release to the public, general information including the name, classification, location, identity of the drilling contractor and rig used by the Operator, depth and operational status of the drilling program.
- 3. It is a condition of approval of this DPA that the Operator, pursuant to Section 52(2)(a) of the *Petroleum Regulations*, (CNR1151/96) provide to the director on a weekly basis a benefits monitoring report as well as a cost summary report showing AFE costs, costs to date and variances for all major cost categories.
- 4. The core acquired under this DPA may be requested under Section 149 of the Petroleum Drilling Regulations but shall otherwise be submitted to the Director upon expiration of the relevant Exploration Permit 03-106 or 96-105.
- 5. Crew certificates are to be supplied upon confirmation of rig contracts. The Operator shall also ensure that the crew is familiar with diverting procedures and related equipment.
- 6. The Operator shall, prior to commencement of drilling operations, supply to the Department a security deposit for the amount of \$18,000 to ensure abandonment, reclamation, and reporting requirements are met. The security deposit secures the Operator's commitments to comply with the *Petroleum and Natural Gas Act*, the regulations under this Act and the terms and conditions of the Vulcan Minerals Test Holes #4, #5, #6, #7 and #8 Authority to Drill a Well and Drilling Program Approval.
- 7. The Minister may use the security deposit to compensate the Province for any losses, costs, demands or other charges that the Province incurs as a result of the Operator's non-compliance with the *Petroleum and Natural gas Act*, the regulations under this Act and the terms and conditions of this approval.
- 8. The submission of the security deposit and any usage of that deposit by the Minister shall not limit or restrict the liability of the Operator for its actions or the actions of its agents, contractors, employees and other acting under the Operator's authority, or limit or restrict the Operator's obligation to indemnify the Province pursuant to the Newfoundland and Labrador Petroleum Regulations.

- 9. The security deposit or any unexpended balance shall be refunded without interest to the applicant
- 10. If, during this drilling program, all or part of the security deposit is expended by the Minister, the Operator shall, on request by the Director, provide further security so that the security deposit is replenished to its original amount.
- 11. The detailed program referenced in Approval condition #4 attached consists of the following documents supplied by the Operator:

Title	Date Issued	Date Revised
2011 Flat Bay Test Hole Drilling Program Information	13 June 2011	16 June 2011
Emergency Response Plan	18 June 2010	30 May 2011

August 19th, 2011



		A	UTHORITY TO D	RILL A WELL - APPLIC	ATION		
Pursuant to s	ections 8 and 9 of	the Petroleu	m and Natural Gas A	ct (R.S.N.L. 1990, c. P-10) a	ind in compl	iance with section 29 of the	
Petroleum Di	illing Regulations,	(CNR 1150/96	5) Vulcan Minerals	Inc.		, as operator,	
hereby applie	es for Authority to	Drill a Well	to be known as Flat	Bay Test Hole #4			
using the equ	ipment and proce	dures describ	ed in the well progra	m dated June 13th	,20	11	
Permit, Licer	nce or Lease to wh	ich this Prog	ram applies:	Exploration Permit #03-1	06		
Area: Weste	rn Newfoundland,	Bay St. Geo	rge Basin		CO-OR	DINATES	
Field/Pool: 1	-lat Bay			Long:		UTM (N A D 27)	
Drilling Rig	Duralite 800			Lat:		Easting: 383 525 m	
Rig Type: D	uralite Diamond I	Drill		ELEVATIO	N	DEPTH	
2002 A					.F m	T.D : 150 m	
Drilling Contractor: Logan Drilling Ltd,				G.L.: +47 m rel. MSL		TVD: 150 m	
	ES	TIMATES			TARGET HORIZONS		
Spud Date: 1	5-Jul-2011	Well	Cost:\$100k		Fishell's Brook Conclements		
Days on Loc	ation: 3 days			rischeit's brook Congiomerate			
			EVALU	ATION PROGRAM			
Ten-metre sa	ample intervals: n/	'a		Conventional cores at:	continuous	wireline core drilling	
Five-metre s	ample intervals:n/	'a					
Canned sam	ple intervals: n/	a		Logs and Tests: h/a			
			CASING AND	CEMENTING PROGRAM	м		
O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program			
88.9	12.8	4130CrMo	40	1821 kg/m Class 'A' to surface (30% excess)			
		10.000000					
Other Equi	pment:						
The undersig	med operator's Rep	presentative h	ereby declares that,	to the best of the Representation	ative's know	ledge, the information contrained	
herein and in	the attached detai	iled program	is true, accurate and	complete.			
Signed:	IXAA	de			Date: 1	3-Jun-2011	
	Offerator's	Representati	ve				
/	( Sherman a)		AU	THORIZATION			

Whereas the Minister of Natural Resources has jurisdiction under the *Petroleum Drilling Regulations*, ("the Regulations"). In accordance with section 32 of the Regulations, the operator named in the Application is authorized to undertake the proposed well program described above subject to the following conditions:

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

2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their aquistition;

3. The operator shall comply with all conditions of the Drilling Program Approval No. **201-116-01** under which the above well is to be drilled;

4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;

5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and

6. The operator shall comply with such other conditions as are appended to this Authorization.

Signed: Whate

Effective Date: 2211-08-19

Authority to Drill a Well No. 2011-116 -01-01

Revised: March, 2008 FRM-63

# SCHEDULE "A" TO

# AUTHORITY TO DRILL A WELL #2011-116-01-01

# **OTHER CONDITIONS**

- 1. The Operator shall, prior to commencement of major site operations, ensure that an approved Operator's representative is on site to supervise all site operations.
- 2. Notwithstanding condition #3 of the Authorization (see previous page), the Operator shall comply with the requirements of the *Petroleum Drilling Regulations, (CNR 1150/96)* (the Regulations) unless the Operator has received written approval from the Director to deviate from the Regulations.
- 3. The Operator shall ensure that the test hole is drilled in a prudent and reasonable manner, consistent with good oilfield practices and with due consideration for the safety of personnel, property and the environment.
- 4. The Operator shall be liable for its actions and the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole.
- 5. The Operator's liability for the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole does not limit any liability that those agents, contractors, employees or others acting under the Operator's authority may have to the Operator.
- 6. The Operator shall ensure that all necessary approvals have been acquired from other government agencies and other rights holders, in respect of access to and use of land for the purpose of the drilling operations, and disposal of all materials.
- 7. The Operator shall attorn to the jurisdiction of the courts of the Province of Newfoundland and Labrador.
- 8. As per section 142(b) of the Regulations, 24 hour notice shall be provided to the Director prior to spud-in.
- 9. Daily drilling and daily geological reports shall be submitted on a daily basis via email to petroleum\_development@gov.nl.ca.
- 10. A termination record signed by the operator's representative must be submitted within 21 days of the rig release date. Down-hole schematic and digital images showing the final condition of the site are to be included.
- 11. Prior to the end of drilling operations, the Operator shall provide a legal survey of the site acceptable to the Director to confirm the location of the test hole.



#### AUTHORITY TO DRILL A WELL - APPLICATION

Pursuant to sections 8 and 9 of the Petroleum and Natural Gas Act (R.S.N.L. 1990, c. P-10) and in compliance with section 29 of the

Petroleum Drilling Regulations,(CNR 1150/96) Vulcan Minerals Inc. , as operator, hereby applies for Authority to Drill a Well to be known as Flat Bay Test Hole #5

using the equipment and proce	dures described in the well prog	ram dated June 13th	20 11	
Permit, Licence or Lease to wi	nich this Program applies:	Exploration Permit #96-105		
Area: Western Newfoundland	, Bay St. George Basin	CO-(	DRDINATES	
P. 11/0 1 17 10		l ong	UTM (N A D 27)	
Field/Pool: Flat Bay			Northing: 5 361 123 m	
Drilling Rig: Duralite 800		I.at:	Easting: 383 208 m	
Rig Type: Duralite Diamond I	Drill	ELEVATION	DEPTH	
			m T.D.: 150 m	
Drilling Contractor: Logan Dr	illing Ltd.	G.L.: +35 m rel. MSL	TVD: 150 m	
ES	TIMATES	TARGET HORIZONS		
Spud Date: 15-Jul-2011	Well Cost: \$100k	Fischell's Brook Conglomerate		
Days on Location: 3 days	L			
	EVAL	JATION PROGRAM		

Ten-metre sample intervals: n/a	Conventional cores at: continuous wireline core drilling	
Five-metre sample intervals:n/a	Logs and Tests: n/a	
Canned sample intervals: n/a		

#### CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program
88.9	12.8	4130CrMo	40	1821 kg/m Class 'A' to surface (30% excess)
			Classic Science	
		distantion in the second		

#### Other Equipment:

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

Signed:

Operator's Representative

Date: 13-Jun-2011

AUTHORIZATION

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

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

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

2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their aquistition;

3. The operator shall comply with all conditions of the Drilling Program Approval No. **2011-116-01** under which the above well is to be drilled;

4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;

5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and

6. The operator shall comply with such other conditions as are appended to this Authorization.

Signed: W-toot

Effective Date: 2011 - 08 - 19

Authority to Drill a Well No. 2011-116-01-02

Revised: March, 2008 FRM-63

# SCHEDULE "A" TO

# AUTHORITY TO DRILL A WELL #2011-116-01-02

# **OTHER CONDITIONS**

- 1. The Operator shall, prior to commencement of major site operations, ensure that an approved Operator's representative is on site to supervise all site operations.
- 2. Notwithstanding condition #3 of the Authorization (see previous page), the Operator shall comply with the requirements of the *Petroleum Drilling Regulations, (CNR 1150/96)* (the Regulations) unless the Operator has received written approval from the Director to deviate from the Regulations.
- 3. The Operator shall ensure that the test hole is drilled in a prudent and reasonable manner, consistent with good oilfield practices and with due consideration for the safety of personnel, property and the environment.
- 4. The Operator shall be liable for its actions and the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole.
- 5. The Operator's liability for the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole does not limit any liability that those agents, contractors, employees or others acting under the Operator's authority may have to the Operator.
- 6. The Operator shall ensure that all necessary approvals have been acquired from other government agencies and other rights holders, in respect of access to and use of land for the purpose of the drilling operations, and disposal of all materials.
- 7. The Operator shall attorn to the jurisdiction of the courts of the Province of Newfoundland and Labrador.
- 8. As per section 142(b) of the Regulations, 24 hour notice shall be provided to the Director prior to spud-in.
- 9. Daily drilling and daily geological reports shall be submitted on a daily basis via email to petroleum\_development@gov.nl.ca.
- 10. A termination record signed by the operator's representative must be submitted within 21 days of the rig release date. Down-hole schematic and digital images showing the final condition of the site are to be included.
- 11. Prior to the end of drilling operations, the Operator shall provide a legal survey of the site acceptable to the Director to confirm the location of the test hole.



#### AUTHORITY TO DRILL A WELL - APPLICATION

Pursuant to sections 8 and 9 of the Petroleum and Natural Gas Act (R.S.N.L. 1990, c. P-10) and in compliance with section 29 of the Petroleum Drilling Regulations, (CNR 1150/96) Vulcan Minerals Inc. , as operator,

hereby applies for Authority to	Drill a Well to be known as Fl	lat Bay Test Hole #6		
using the equipment and proce	dures described in the well prog	ram dated June 13th	20 11	
Permit, Licence or Lease to wh	ich this Program applies:	Exploration Permit #03-106		
Area: Western Newfoundland,	Bay St. George Basin	CO-0	ORDINATES	
		Lange	UTM (N A D 27)	
Field/Pool: Flat Bay		Long.	Northing: 5 358 513 m	
Drilling Rig: Duralite 800		Lat:	Easting: 384 606 m	
Rig Type: Duralite Diamond I	Drill	ELEVATION	DEPTH	
			m T.D.: 150 m	
Drilling Contractor: Logan Dri	lling Lta.	G.L.: +87 m rel. MSL	TVD: 150 m	
ES	TIMATES	TARG	ET HORIZONS	
Spud Date: 15-Jul-2011 Well Cost: \$100k				
Days on Location: 3 days		Hischell's Brook Conglomerate		
	EVAL	UATION PROGRAM		
Ten-metre sample intervals: n/	a	Conventional cores at: continuous wireline core drilling		

 Ten-metre sample intervals: n/a
 Conventional cores at: continuous wireline core drilling

 Five-metre sample intervals: n/a
 Logs and Tests: n/a

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program
88.9	12.8	4130CrMo	40	1821 kg/m Class 'A' to surface (30% excess)
	(Lease and Lease and Le	-		

#### Other Equipment:

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

Signed:

Operator's Representative

#### AUTHORIZATION

Whereas the Minister of Natural Resources has jurisdiction under the *Petroleum Drilling Regulations*, ("the Regulations"). In accordance with section 32 of the Regulations, the operator named in the Application is authorized to undertake the proposed well program described above subject to the following conditions:

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

2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their aquistition;

3. The operator shall comply with all conditions of the Drilling Program Approval No. 2011-116-01 under which the above well is to be drilled;

4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;

5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and

6. The operator shall comply with such other conditions as are appended to this Authorization.

Signed: Wate

Effective Date: 2011-08-19

13-Jun-2011

Date:

Authority to Drill a Well No. 2011-116-01-03

Revised: March, 2008 FRM-63

# SCHEDULE "A" TO

# AUTHORITY TO DRILL A WELL #2011-116-01-03

# **OTHER CONDITIONS**

- 1. The Operator shall, prior to commencement of major site operations, ensure that an approved Operator's representative is on site to supervise all site operations.
- 2. Notwithstanding condition #3 of the Authorization (see previous page), the Operator shall comply with the requirements of the *Petroleum Drilling Regulations, (CNR 1150/96)* (the Regulations) unless the Operator has received written approval from the Director to deviate from the Regulations.
- 3. The Operator shall ensure that the test hole is drilled in a prudent and reasonable manner, consistent with good oilfield practices and with due consideration for the safety of personnel, property and the environment.
- 4. The Operator shall be liable for its actions and the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole.
- 5. The Operator's liability for the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole does not limit any liability that those agents, contractors, employees or others acting under the Operator's authority may have to the Operator.
- 6. The Operator shall ensure that all necessary approvals have been acquired from other government agencies and other rights holders, in respect of access to and use of land for the purpose of the drilling operations, and disposal of all materials.
- 7. The Operator shall attorn to the jurisdiction of the courts of the Province of Newfoundland and Labrador.
- 8. As per section 142(b) of the Regulations, 24 hour notice shall be provided to the Director prior to spud-in.
- 9. Daily drilling and daily geological reports shall be submitted on a daily basis via email to petroleum\_development@gov.nl.ca.
- 10. A termination record signed by the operator's representative must be submitted within 21 days of the rig release date. Down-hole schematic and digital images showing the final condition of the site are to be included.
- 11. Prior to the end of drilling operations, the Operator shall provide a legal survey of the site acceptable to the Director to confirm the location of the test hole.



#### AUTHORITY TO DRILL A WELL - APPLICATION

Pursuant to sections 8 and 9 of the Petroleum and Natural Gas Act (R.S.N.L. 1990, c. P-10) and in compliance with section 29 of the

Petroleum Drilling Regulations,(CNR 1150/96) Vu	Vulcan Minerals Inc.			
hereby applies for Authority to Drill a Well to be I	known as Flat Bay Test Hole #7			
using the equipment and procedures described in t	he well program dated June 13th ,20 11			

Permit, Licence or Lease to which this Program applies: Exploration Permit #03-106

Area: Western Newfoundland	Bay St. George Basin	CO-ORDINATES		
			UTM (N A D 27)	
Field/Pool: Flat Bay		Long:	Northing: 5 357 644 m	
Drilling Rig: Duralite 800		Lat:	Easting: 384 746 m	
Rig Type: Duralite Diamond I	Drill	ELEVATION	DEPTH	
Drilling Contractor: Logan Dr	l'ing I td		n T.D.: 150 m	
brining conductor rogan br		G.L.: +107 m rel. MSL	TVD: 150 m	
ES	FIMATES	TARGET HORIZONS		
Spud Date: 15-Jul-2011	Well Cost:\$100k	Fischell's Brook Conglomerate		
Days on Location: 3 days				

#### EVALUATION PROGRAM

Ten-metre sample intervals; n/a	Conventional cores at: continuous wireline core drilling	
Five-metre sample intervals:n/a	= Logs and Tests: n/a	
Canned sample intervals: n/a		

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program	
88.9	12.8	4130CrMo	40	1821 kg/m Class 'A' to surface (30% excess)	
					]
		Long over generalistics			7

Other Equipment:

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

Signed:

Date: 13-Jun-2011

Operator's Representative

AUTHORIZATION

Whereas the Minister of Natural Resources has jurisdiction under the *Petroleum Drilling Regulations*, ("the Regulations"). In accordance with section 32 of the Regulations, the operator named in the Application is authorized to undertake the proposed well program described above subject to the following conditions:

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

2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their aquistition;

3. The operator shall comply with all conditions of the Drilling Program Approval No. 201-116-01 under which the above well is to be drilled;

4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;

5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and

6. The operator shall comply with such other conditions as are appended to this Authorization.

Signed: Moste

Effective Date: \_2011 - 08 - 19

Authority to Drill a Well No. 2011-116-01-04

Revised: March, 2008 FRM-63

# SCHEDULE "A" TO

# AUTHORITY TO DRILL A WELL #2011-116-01-04

# **OTHER CONDITIONS**

- 1. The Operator shall, prior to commencement of major site operations, ensure that an approved Operator's representative is on site to supervise all site operations.
- 2. Notwithstanding condition #3 of the Authorization (see previous page), the Operator shall comply with the requirements of the *Petroleum Drilling Regulations, (CNR 1150/96)* (the Regulations) unless the Operator has received written approval from the Director to deviate from the Regulations.
- 3. The Operator shall ensure that the test hole is drilled in a prudent and reasonable manner, consistent with good oilfield practices and with due consideration for the safety of personnel, property and the environment.
- 4. The Operator shall be liable for its actions and the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole.
- 5. The Operator's liability for the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole does not limit any liability that those agents, contractors, employees or others acting under the Operator's authority may have to the Operator.
- 6. The Operator shall ensure that all necessary approvals have been acquired from other government agencies and other rights holders, in respect of access to and use of land for the purpose of the drilling operations, and disposal of all materials.
- 7. The Operator shall attorn to the jurisdiction of the courts of the Province of Newfoundland and Labrador.
- 8. As per section 142(b) of the Regulations, 24 hour notice shall be provided to the Director prior to spud-in.
- 9. Daily drilling and daily geological reports shall be submitted on a daily basis via email to petroleum\_development@gov.nl.ca.
- 10. A termination record signed by the operator's representative must be submitted within 21 days of the rig release date. Down-hole schematic and digital images showing the final condition of the site are to be included.
- 11. Prior to the end of drilling operations, the Operator shall provide a legal survey of the site acceptable to the Director to confirm the location of the test hole.

August 19, 2011



#### AUTHORITY TO DRILL A WELL - APPLICATION

Pursuant to sections 8 and 9 of	the Petroleum and Natural Gas	Act (R.S.N.L. 1990, c. P-10) and in comp	fiance with section 29 of the	
Petroleum Drilling Regulations,	(CNR 1150/96) Vulcan Minera	ls Inc.	, as operator,	
hereby applies for Authority to	lat Bay Test Hole #8	and the second		
using the equipment and proce	dures described in the well prog	ram dated June 13th ,20	11	
Permit, Licence or Lease to wh	nich this Program applies:	Exploration Permit #96-105		
Area: Western Newfoundland,	, Bay St. George Basin	CO-01	IDINATES	
		Lang	UTM (N A D 27)	
Field/Pool: Flat Bay		Dong.	Northing: 5 360 651 m	
Drilling Rig: Duralite 800		1 or		
			Easting: 385 323 m	
Rig Type: Duralite Diamond I	Drill	ELEVATION	DEPTH	
Drilling Contractor: Logan Dri	illing I td		T.D.: 150 m	
orning contactor, rogan or	ining Ett.	G.L.: +28 m rel. MSL	TVD: 150 m	
EST	TIMATES	TARGET HORIZONS		
Spud Date: 15-Jul-2011	Well Cost:\$100k	Fischell's Brook Conglomerate		
Days on Location: 3 days				
	EVAL	UATION PROGRAM		
Ten-metre sample intervals: n/	a	Conventional cores at: continuous wireline core drilling		
Five-metre sample intervals:n/	'a			

CASING AND CEMENTING PROGRAM

Logs and Tests: n/a

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program
88.9	12.8	4130CrMo	40	1821 kg/m Class 'A' to surface (30% excess)
	Cale Sectors		No. Contraction of the	
No. of the second s	125 240 200	(COLUMN)	Interios consideration	
	1	1	and the state of the	

#### Other Equipment:

Canned sample intervals:

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

Signed:

Operator's Representative

n/a

AUTHORIZATION

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

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

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

2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their aquistition;

3. The operator shall comply with all conditions of the Drilling Program Approval No. under which the 2011-116-01 above well is to be drilled;

4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;

5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and

6. The operator shall comply with such other conditions as are appended to this Authorization.

Signed: Authority to Drill a Well No. 2011-116-01-05

Effective Date: 2011-08-19

13-Jun-2011

Date:

Revised: March, 2008 FRM-63

# SCHEDULE "A" TO

# AUTHORITY TO DRILL A WELL #2011-116-01-05

# **OTHER CONDITIONS**

- 1. The Operator shall, prior to commencement of major site operations, ensure that an approved Operator's representative is on site to supervise all site operations.
- 2. Notwithstanding condition #3 of the Authorization (see previous page), the Operator shall comply with the requirements of the *Petroleum Drilling Regulations, (CNR 1150/96)* (the Regulations) unless the Operator has received written approval from the Director to deviate from the Regulations.
- 3. The Operator shall ensure that the test hole is drilled in a prudent and reasonable manner, consistent with good oilfield practices and with due consideration for the safety of personnel, property and the environment.
- 4. The Operator shall be liable for its actions and the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole.
- 5. The Operator's liability for the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole does not limit any liability that those agents, contractors, employees or others acting under the Operator's authority may have to the Operator.
- 6. The Operator shall ensure that all necessary approvals have been acquired from other government agencies and other rights holders, in respect of access to and use of land for the purpose of the drilling operations, and disposal of all materials.
- 7. The Operator shall attorn to the jurisdiction of the courts of the Province of Newfoundland and Labrador.
- 8. As per section 142(b) of the Regulations, 24 hour notice shall be provided to the Director prior to spud-in.
- 9. Daily drilling and daily geological reports shall be submitted on a daily basis via email to petroleum\_development@gov.nl.ca.
- 10. A termination record signed by the operator's representative must be submitted within 21 days of the rig release date. Down-hole schematic and digital images showing the final condition of the site are to be included.
- 11. Prior to the end of drilling operations, the Operator shall provide a legal survey of the site acceptable to the Director to confirm the location of the test hole.

August 19, 2011



#### AUTHORITY TO DRILL A WELL - APPLICATION

Pursuant to sections 8 and 9 of the Petroleum and Natural Gas Act (R.S.N.L. 1990, c. P-10) and in compliance with section 29 of the Petroleum Drilling Regulations, (CNR 1150/96) Vulcan Minerals Inc. , as operator,

hereby applies for Authority to Drill a Well to be known as Flat Bay Test Hole #9

using the equipment and procedures described in the well program dated June 13th ,20 11

Permit, Licence or Lease to which this Program applies: Exploration Permit #96-105

St. George Basin	CO-ORDINATES				
		UTM (N A D 27)			
	Long:	Northing: 5 360 190 m			
	Lat:	Easting: 383 640 m			
	ELEVATION	DEPTH			
		m T.D.: 300 m			
Ltd.	G.L.: +39 m rel. MSL	TVD: 300 m			
TES	TARGET HORIZONS				
Well Cost:\$100k					
	Fischell's Brook Conglomerate				
	St. George Basin Ltd. TES Well Cost:\$100k	St. George Basin CO-C Long: Lat: ELEVATION Lat: FRT T KB T RF G.L.: +39 m rel. MSL TARGE Well Cost: \$100k Fischell's Brook Conglomerate			

#### **EVALUATION PROGRAM**

Ten-metre sample intervals: n/a	Conventional cores at: continuous wireline core drilling			
Five-metre sample intervals:n/a	Land and Tanan and			
Canned sample intervals: n/a	Logs and rests. Wa			

#### CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program
88.9	12.8	4130CrMo	40	1821 kg/m Class 'A' to surface (30% excess)
	The interview of the second			

#### Other Equipment:

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

Signed:

tate also Operator's Representative

#### AUTHORIZATION

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

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

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

2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their aquistition;

3. The operator shall comply with all conditions of the Drilling Program Approval No. 2011-116-02 under which the above well is to be drilled;

4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;

5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and

6. The operator shall comply with such other conditions as are appended to this Authorization.

00 Signed: Authority to Drill a Well No. 2011-116-02-03

Effective Date: 2011-10-21

Date:

18-Oct-2011

Rev

Revised: March, 2008 FRM-63

# **SCHEDULE "A" TO**

# AUTHORITY TO DRILL A WELL #2011-116-02-03

# **OTHER CONDITIONS**

- 1. The Operator shall, prior to commencement of major site operations, ensure that an approved Operator's representative is on site to supervise all site operations.
- 2. Notwithstanding condition #3 of the Authorization (see previous page), the Operator shall comply with the requirements of the *Petroleum Drilling Regulations, (CNR 1150/96)* (the Regulations) unless the Operator has received written approval from the Director to deviate from the Regulations.
- 3. The Operator shall ensure that the test hole is drilled in a prudent and reasonable manner, consistent with good oilfield practices and with due consideration for the safety of personnel, property and the environment.
- 4. The Operator shall be liable for its actions and the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole.
- 5. The Operator's liability for the actions of its agents, contractors, employees and any others acting under the Operator's authority in drilling the test hole does not limit any liability that those agents, contractors, employees or others acting under the Operator's authority may have to the Operator.
- 6. The Operator shall ensure that all necessary approvals have been acquired from other government agencies and other rights holders, in respect of access to and use of land for the purpose of the drilling operations, and disposal of all materials.
- 7. The Operator shall attorn to the jurisdiction of the courts of the Province of Newfoundland and Labrador.
- 8. As per section 142(b) of the Regulations, 24 hour notice shall be provided to the Director prior to spud-in.
- 9. Daily drilling and daily geological reports shall be submitted on a daily basis via email to petroleum\_development@gov.nl.ca.
- 10. A termination record signed by the operator's representative must be submitted within 21 days of the rig release date. Down-hole schematic and digital images showing the final condition of the site are to be included.
- 11. Prior to the end of drilling operations, the Operator shall provide a legal survey of the site acceptable to the Director to confirm the location of the test hole.

October 18, 2011

Appendix II Daily Reports

Flat Bay	Test Hole # CH	17				REPORT #:	1	DATE:	Septen	nber 20, 2011
DEPTH 24:00:	0m		PROGRESS	:		Last 24 Hr Rot	ating Time:	1	Ave ROP:	
OPER 09:00:			1			FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		cloudy	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8°C	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	6
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M		
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MB I		Tanks		m3
DOTTOMU						CI (ppm)		Hole volume		m3
BOLIOMH			Min ID	Connection		Ca (ppm)		System Vol.		m3
INO. 1	Item	Max OD	Min ID	Connection	Size & Type	_				
2						Mud Co				
2						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Lip @				
Avail WOB		Its DP Backs		DC Conn:	XXX	Midd Op @				
Avan WOD.				00 00111.						
					VVV		м <sup>3</sup>			
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>			
Jts DP in hole: DRILLING		DP on Loc:	DOWN	DP Conn:	XXX	VOLUMES Water added	M <sup>3</sup>	Mud Daily Cost		
Jts DP in hole: DRILLING RU / TO	OPERATIONS TI	DP on Loc: <b>WE BREAKI</b> Survey	DOWN	DP Conn: Move Rig	XXX	VOLUMES Water added Losses	M <sup>3</sup>	Mud Daily Cost Mud Cum Cost		
Jts DP in hole: DRILLING RU / TO Drill w/ fluid	OPERATIONS TIM	DP on Loc: <b>ME BREAKI</b> Survey Logging	DOWN	DP Conn: Move Rig Fishing	xxx	VOLUMES Water added Losses WELL CON	M <sup>3</sup>	Mud Daily Cost Mud Cum Cost SOLIDS CO	NTROL	
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air	OPERATIONS TIN	DP on Loc: <b>ME BREAKI</b> Survey Logging Run Casing		DP Conn: Move Rig Fishing WO Materials	xxx	VOLUMES Water added Losses WELL CON RSPP	M <sup>3</sup> TROL N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	_N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Day Dathala	OPERATIONS TIN	DP on Loc: <b>ME BREAKI</b> Survey Logging Run Casing Cementing		DP Conn: Move Rig Fishing WO Materials WO Services	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min	M <sup>3</sup> TROL N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL	N/A N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	OPERATIONS TIN	DP on Loc: <b>WE BREAKI</b> Survey Logging Run Casing Cementing WOC NU RODIO		DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Cala klais Fill	M <sup>3</sup> TROL N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	Desilter	N/A N/A Centrifuge
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Trinping	OPERATIONS TIN	DP on Loc: <b>ME BREAKI</b> Survey Logging Run Casing Cementing WOC NU BOP's Tart ROPs		DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Instell Wollboard	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	M <sup>3</sup> TROL N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	NTROL Desilter N/A	N/A N/A Centrifuge N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Pin	OPERATIONS TIN	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Dill Out Cert	DOWN	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Let BOR Drill:	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O F. (kg/m3)	NTROL Desilter N/A N/A	N/A N/A Centrifuge N/A N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Renair Rin	OPERATIONS TIN	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST	DOWN	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Eiching	OPERATIONS TIN	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hodie Toole	DOWN	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing		DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	DOWN	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SolIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S	OPERATIONS TIN	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration		DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe	XXX	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs)	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TIN	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 12 bro	DOWN	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe	XXX	VOLUMES Water added 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 - 2	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TIN OPERATIONS TIN SUMMARY FOR T To 1900	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 12hrs	DOWN Logan Drilli	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs september ing packed up	XXX er 20/2011	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill (0000 hrs - 2 E r lake,ready to	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs) 2400 hrs) 2400 on tri	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A er gear to fla	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TIN DUMMARY FOR T To 1900	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 12hrs	DOWN	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs september ing packed up	XXX er 20/2011 gear in dee	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2 E r lake, ready to	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs) 2400 hrs) 2400 on tri	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh U.F. (kg/m3) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A er gear to fla	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TIN SUMMARY FOR T To 1900	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 12hrs	DOWN	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs september ing packed up	XXX er 20/2011 gear in dee	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2 E r lake,ready to	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs) 2400 hrs) 2400 on tri	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A er gear to fla	N/A N/A Centrifuge N/A N/A N/A (to 24:00) t bay location
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TIN SUMMARY FOR T To 1900	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 12hrs	DOWN Logan Drilli	DP Conn: Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe ing packed up	XXX er 20/2011 gear in dee	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2 E r lake, ready to	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs) vent o load on tri	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A er gear to fla	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
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гас Бау	Test Hole # Cl	H7				REPORT #:	2	DATE:	Septen	nber 21, 2011
DEPTH 24:00:	0m		PROGRESS			Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.HY	/NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		cloudy	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	MANCE		1		DRILLIN	G FLUID		PUMPS	3
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
						pH		Drillpipe AV		m/min
						VVL (CCS)		Drilicollar AV		m/min
Condition						Sand (%)		NOZZIE VEI		11/360
Pulled For?						Solids (%)		м	UD & CHEN	
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						мвт		Tanks		m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY					Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1										
2				<u> </u>		Mud Co.				
3					VVV	Mud Man				
BHA Length:		HOOK LOAD:		DP size	×××	wiud Op @				
Avan WOB.		JIS DF RACKS		De conn.			M3	-		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	IVI			
DRILLING	OPERATIONS TI	ME BREAK		<del></del>	T	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON		SOLIDS CO	NIROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		
Reaming Bm Bathala		Cementing		WO Services		ST/Min	NI/A	Snaker Wesh	Desilter	IN/A Contrifugo
Cond / Circ				Mix mud		MACP(KPa)		Vol LIE (I/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	$U \in (kg/m3)$	N/A	N/A
Lubricato Rig		1001 201 0		motali Wolinoda		Lst BOP Drill		O E (kg/m3)	N/A	N1/A
LUDICALE NIU		Drill Out Cmt								N/A
Repair Rig		Drill Out Cmt DST				Calc Hole Fill		Hours/Days	N/A	N/A N/A
Repair Rig Fishing		Drill Out Cmt DST Hndle Tools		Total Hrs		Calc Hole Fill		Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Repair Rig Fishing		Drill Out Cmt DST Hndle Tools		Total Hrs	or 21/2011	Calc Hole Fill Act Hole Fill	2400 hrs)	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Repair Rig Fishing 24 HOUR S From	SUMMARY FOR T	Drill Out Cmt DST Hndle Tools HE DATE : Duration	<u> </u>	Total Hrs septembe	er 21/2011	Calc Hole Fill Act Hole Fill (0000 hrs - 2	2400 hrs) <b>vent</b>	Hours/Days Boiler Hrs:	N/A	IV/A N/A (to 24:00)
Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T To 1300	Drill Out Cmt DST Hndle Tools <b>HE DATE :</b> <b>Duration</b> 6.00	demobilize	Total Hrs septembe	er 21/2011	Calc Hole Fill Act Hole Fill (0000 hrs - 2	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Eublicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300	SUMMARY FOR T To 1300 1500	Drill Out Cmt DST Hndle Tools HE DATE : Duration 6.00 2.00	demobilize move drill s	Total Hrs septembe rest of gear to hack and fuel	er 21/2011 o site, tank	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Eduncate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools HE DATE : Duration 6.00 2.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to hack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Eublicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 2.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to hack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Contracter Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 2.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to hack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools <b>'HE DATE :</b> <b>Duration</b> 6.00 2.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to shack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools <b>'HE DATE :</b> <b>Duration</b> 6.00 2.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to shack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools <b>'HE DATE :</b> <b>Duration</b> 6.00 2.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to hack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools 'HE DATE : Duration 6.00 2.00 4.00 	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to hack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools 'HE DATE : Duration 6.00 2.00 4.00 	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to shack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools 'HE DATE : Duration 6.00 2.00 4.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to shack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 2.00 4.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to shack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools <b>'HE DATE :</b> <b>Duration</b> 6.00 2.00 4.00 	demobilize move drill s to rig up on	Total Hrs septembe rest of gear tc ihack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Contracter Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 2.00 4.00 	demobilize move drill s to rig up on	Total Hrs septembe rest of gear tc ihack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 2.00 4.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to ihack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Hours/Days Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 2.00 4.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to hack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Boiler Hrs:	N/A	N/A N/A (to 24:00)
Contracter Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900	Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 2.00 4.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to hack and fuel the first drill h	er 21/2011	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Boiler Hrs:	N/A	N/A N/A (to 24:00)
Cubicate Rig           Repair Rig           Fishing           24 HOUR S           From           0700           1300           1500           1900	SUMMARY FOR T To 1300 1500 1900 	Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 2.00 4.00 4.00	demobilize move drill s to rig up on	Total Hrs septembe rest of gear to hack and fuel the first drill h	er 21/2011 o site, tank nole.	Calc Hole Fill Act Hole Fill (0000 hrs - 2 E	2400 hrs) vent	Boiler Hrs:	N/A	N/A N/A (to 24:00)

Flat Bay	Test Hole # CH	17				REPORT #:	3	DATE:	Septen	nber 22, 2011
DEPTH 24:00:	0m		PROGRESS			Last 24 Hr Rot	ating Time:		Ave ROP:	,
OPER 09:00:			-1			FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	5
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		INIC.		
Meters						OII (%)		Mud Cycle		min
								Bottoms Up		min m2
Cullinis	ļ					CL (nnm)		Hole Volume		m3
BOTTOMH						Co (ppm)				m2
No		Max OD	Min ID	Connection	Size & Type	Ca (ppm)		System vol.		1113
1	item			Connection						
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX		м <sup>3</sup>			
DRILLING	OPERATIONS TI	AE BREAK	DOWN	1		Water added		Mud Daily Cost		
DRILLING	OPERATIONS TIN	IE BREAKI	DOWN	Move Rig		Water added		Mud Daily Cost Mud Cum Cost		
DRILLING RU / TO Drill w/ fluid	OPERATIONS TIN	<b>NE BREAKI</b> Survey Logging	DOWN	Move Rig		Water added Losses	TROL	Mud Daily Cost Mud Cum Cost	NTROL	
DRILLING RU / TO Drill w/ fluid Drill w/ air	OPERATIONS TIN	<b>ME BREAKI</b> Survey Logging Run Casing	DOWN	Move Rig WO Materials		Water added Losses WELL CON RSPP	TROL N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming	OPERATIONS TIN	<b>IE BREAKI</b> Survey Logging Run Casing Cementing	DOWN	Move Rig WO Materials WO Services		Water added Losses WELL CON RSPP ST/Min	TROL N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL	_N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	OPERATIONS TIN	<b>IE BREAKI</b> Survey Logging Run Casing Cementing WOC	DOWN	Move Rig WO Materials WO Services Safety Meeting		Water added Losses WELL CON RSPP ST/Min MACP(kPa)	TROL N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL Desilter	N/A N/A Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	OPERATIONS TIN	<b>IE BREAKI</b> Survey Logging Run Casing Cementing WOC NU BOP's	DOWN	Move Rig WO Materials WO Services Safety Meeting Mix mud		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	TROL N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	Desilter N/A	N/A N/A Centrifuge N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping	OPERATIONS TIN	<b>ME BREAKI</b> Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs	DOWN	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	NTROL Desilter N/A N/A	N/A N/A Centrifuge N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig	OPERATIONS TI	AE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3)	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill	TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S	OPERATIONS TIN	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE :		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe	er 22/2011	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2	TROL N/A N/A N/A 2400 hrs)	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From	OPERATIONS TIN	AE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe	er 22/2011	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2	TROL N/A N/A N/A 2400 hrs) vent	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TIN SUMMARY FOR T To 1500	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00	DOWN set up drill	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe	er 22/2011	Water added 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 - 2 E ig ready to dri	TROL N/A N/A N/A 2400 hrs) vent II.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1500 4000	OPERATIONS TIN SUMMARY FOR T To 1500 1900	AE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe buildings, ram ft of water line	er 22/2011 ops and get r e,and put roa	Water added 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 - 2 E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) vent II. Imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T To 1500 1900	AE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe buildings, ram ft of water line	er 22/2011 aps and get r a,and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T To 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe buildings, ram ft of water line	er 22/2011 ops and get r e,and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2 E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) 2400 hrs) 2400 hrs) 11. II. Imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T To 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe buildings, ram ft of water line	er 22/2011 ops and get r e,and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2 E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) 2400 hrs) 2400 hrs) 11. II. Imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T To 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 ps and get r e,and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	SUMMARY FOR T To 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 ps and get r e, and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - : E ig ready to drii d down for pu	TROL N/A N/A N/A 2400 hrs) 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T To 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 ps and get r e,and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T To 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 aps and get r a,and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T To 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WVOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 aps and get r a,and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T To 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WVOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 aps and get r a, and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN SUMMARY FOR T 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WVOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 aps and get r a, and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	SUMMARY FOR T 1500 1900	ME BREAKI Survey Logging Run Casing Cementing WVOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe buildings, ram ft of water line	er 22/2011 aps and get r a, and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900 	OPERATIONS TIN	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe buildings, ram ft of water line	er 22/2011 aps and get r a, and put roa	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe buildings, ram ft of water line	er 22/2011 aps and get r a, and put roa	Water added 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 - ; E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe buildings, ram ft of water line	er 22/2011 ops and get r a,and put roa	Water added 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 - ; E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) vent II. mp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Prill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900 1900 24 HOUR S Cond / Circ Cond / Circ Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S Cond / Circ Cond / Circ Cond / Circ Cond / Circ Cond / Circ Tripping Lubricate Rig Repair Rig From 0700 1500 1900 Cond / Circ Cond / Circ Co	OPERATIONS TIN	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill   lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 ops and get r a,and put roa	Water added 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 - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) ivent II. Imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1500 1900	OPERATIONS TIN	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 8.00 4.00	Set up drill lay out 800	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs septembe buildings, ram ft of water line	er 22/2011 ups and get r and put roa	Water added 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 - : E ig ready to dri d down for pu	TROL N/A N/A N/A 2400 hrs) vent II. imp shack.	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)

Flat Bay	Test Hole # Cl	17				REPORT #:	4	DATE:	Septerr	nber 23, 2011
DEPTH 24:00:	0m		PROGRESS:	19.	0 m	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:			1			FOREMAN: H.H.	YNES		MOBILE NO.: 78	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		1
						1		-		
	BIT PERFOR	MANCE	1			DRILLIN	g fluid		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Type Soriol #						Mud Grad		Liner X Stk		
Serial #								SPM Burne Eff		
From (mKB)						YP		Pump Bate		
To (mKB)						Gels		Pump Press		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY					Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1								2 PAILS DD120	0	
2						Mud Co.				
3					VVV	Mud Man				
BHA Length:		Hook Load:		DP size	×××	миа ор @				
Avail WOB.		JIS DF NACKS		DC Conn.			M <sup>3</sup>	-		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	IVI			
DRILLING	OPERATIONS TI	ME BREAK	DOWN	1	1	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging				WELL CON	TROL	SOLIDS CO	NTROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		
Reaming		Cementing		WO Services		ST/Min	NI/A	Shaker Mesh	Desilter	N/A
Rm Rathole				Safety Meeting		MACP(kPa)	IN/A	Vol LE (I/min)	Desliter N/A	Centrifuge NI/A
Tripping		Test BOPs		Install Wellbead		Act Hole Fill	N/A		N/A	N/A
Lubricate Rig		Drill Out Cmt				L st BOP Drill	1.07.0	O E (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Davs	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
				sentember	23-24/2011	(0000 brs - '	2400 bre)			()
Erom		Duration		September	23-24/2011	(0000 ms - 2	vent			
0700	1900	12.00		HEAD FR-0M	1 TO 12M PC			SHOF BIT		
1900	0700	12.00	DRILLED A	HEAD FR- 12	2M TO 19M.	BACKED JIN	IT OF CAS	ING.TRIP OU	OF HOLE	TO FISH
			RAN IN HC	LE TO FISH	OUT CASIN	G.REAM BAC	CK FR-19M	TO 12M.		
			Held safety	meeting with	both crews a	ando n site su	pervisors			
24 HOUR F	orcast :									
Continue to	drill overburden,	searching fo	r bedrock to	set casing.						

Flat Bav	Test Hole # C	H7				REPORT #:	4	DATE:	Sep	ot 24.2011
DEPTH 24:00:	0m		PROGRESS:	19M t	to 25M	Last 24 Hr Rot	ating Time:		Ave ROP:	
OPER 09:00:			1			FOREMAN: H.H	YNES		MOBILE NO .: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
			•							
	BIT PERFOR	RMANCE				DRILLIN	G FLUID		PUMPS	i
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	UD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/nr								Bottoms Up		min
Cum Hrs								Tanks		m3
POTTOMU		,		J.						
			Min ID	Connection	Size & Type	Ca (ppm)		System Vol.		m3
1	Item	IVIAX OD		Connection	size & Type	-			0	
2						Mud Co		Z FAILS DD 120		
3			1			Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @			5	bags of portland
Avail WOB:		Jts DP Racks		DC Conn:	XXX					3. 1
the DD is the law		DD as Law		DD Course	VVV		м <sup>3</sup>			
DBULLING				DF COIIII.						
DRILLING	OPERATIONS II	IVIE DREAN				vvater added		Mud Daily Cost		
BUL/TO		Currieu		Maya Dia		00000		Mud Cum Cost		
RU / TO		Survey		Move Rig				Mud Cum Cost		
RU / TO Drill w/ fluid		Survey Logging		Move Rig		Losses WELL CON		Mud Cum Cost	NTROL	N/A
RU / TO Drill w/ fluid Drill w/ air Reaming		Survey Logging Run Casing		Move Rig WO Materials		Losses WELL CON RSPP	ITROL N/A	Mud Cum Cost SOLIDS CO Shaker Make	NTROL	N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole		Survey Logging Run Casing Cementing		Move Rig WO Materials WO Services		Losses WELL CON RSPP ST/Min MACP(kPa)	ITROL N/A N/A	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL Desilter	N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ		Survey Logging Run Casing Cementing WOC NU BOP's		Move Rig WO Materials WO Services Safety Meeting Mix mud		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	ITROL N/A N/A	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	Desilter	N/A N/A Centrifuge N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping		Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	ITROL N/A N/A N/A	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	NTROL Desilter N/A N/A	N/A N/A Centrifuge N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig		Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	ITROL N/A N/A N/A	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3)	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig		Survey Logging Run Casing Cementing WOC NU BOP'S Test BOP's Test BOP's Drill Out Cmt DST		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	ITROL N/A N/A N/A	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing		Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Test BOP's Drill Out Cmt DST Hndle Tools		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill	ITROL N/A N/A N/A	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing		Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs	4 2011	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill	ITROL N/A N/A N/A	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From	SUMMARY FOR 1	Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2	4,2011	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 - 7	ITROL N/A N/A N/A 2400 hrs)	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR 1 To 1300	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00	continue re	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to	4,2011	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - / E / bad overbur	ITROL N/A N/A N/A 2400 hrs) Event den , got ba	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A e shoe bit wa	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300	SUMMARY FOR 1 To 1300 1900	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00	continue re trip out a ho	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting	4,2011 9 19 M, really ng on shoe b	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - 2 E bad overbur- bit and casing	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worke	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00) s woren out. ed on suppy
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300	SUMMARY FOR 1 To 1300 1900	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00	continue re trip out a ho pump while	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting.	4,2011 0 19 M, really ng on shoe b	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - 2 E bad overbur bit and casing	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the pm Deer Lake	NTROL Desilter N/A N/A N/A N/A e shoe bit wa	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 1900	SUMMARY FOR 1 To 1300 1900 2100	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00	continue re trip out a ho pump while continue wa	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit	4,2011 0 19 M, really ng on shoe t to arrive on	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 - 2 bad overbur bit and casing location	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake	NTROL Desilter N/A N/A N/A N/A e shoe bit wa	N/A N/A Centrifuge N/A N/A N/A (to 24:00) S woren out. ed on suppy
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 1900 2100	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 3.00 9.00	continue re trip out a ho pump while continue wa make up ne	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit aw bit, ream ca	4,2011 o 19 M, really ng on shoe t to arrive on asing back to	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 bad overbur bit and casing location p 19M, drill	TROL N/A N/A N/A 2400 hrs) 2400 hrs) 2400 hrs) 200 hrs) 50 hrs	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake	Desilter N/A N/A N/A N/A e shoe bit wa , crew worke	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00) s woren out. ed on suppy
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing.	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit aw bit, ream ca	4,2011 o 19 M, really ng on shoe to to arrive on asing back to	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - 2 bad overbur bit and casing location p 19M, drill	TROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake	Desilter N/A N/A N/A N/A e shoe bit wa , crew worke	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing.	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit ew bit, ream ca	4,2011 o 19 M, really ng on shoe to to arrive on asing back to	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 - 2 bad overbur bit and casing location 0 19M, drill	TROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worke	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit ew bit, ream ca meeting with	4,2011 0 19 M, really ng on shoe b to arrive on asing back to crew and or	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 - 2 E v bad overbur bit and casing location p 19M, drill	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worke back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit ew bit, ream ca meeting with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	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 - 2 E v bad overbur bit and casing location p 19M, drill	ITROL N/A N/A N/A 2400 hrs) 2400 hrs) 2400 hrs) 2400 hrs) 500 hrs)	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit ew bit, ream ca meeting with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	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 - 2 E v bad overbur bit and casing location p 19M, drill	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit ew bit, ream ca meeting with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 bad overbur oit and casing location to 19M, drill	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting waiting. ait on shoe bit e wbit, ream ca meeting with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 bad overbur bit and casing location to 19M, drill	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting. ait on shoe bit e waiting. ait on shoe bit ew bit, ream ca meeting with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 E v bad overbur bit and casing location p 19M, drill	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting. ait on shoe bit e waiting. ait on shoe bit ew bit, ream ca meeting with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	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 - 2 E v bad overbur bit and casing location p 19M, drill	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting. ait on shoe bit e waiting. ait on shoe bit e wbit, ream co	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 bad overbur bit and casing location to 19M, drill	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. ed on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools THE DATE : Duration 6.00 6.00 9.00 9.00	continue re trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting. ait on shoe bit e waiting. ait on shoe bit e wbit, ream ca	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 bad overbur bit and casing location p 19M, drill a site supervis	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. d on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 1900 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>THE DATE :</b> <b>Duration</b> 6.00 6.00 3.00 9.00 9.00	continue re- trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting. ait on shoe bit e waiting. ait on shoe bit e weiting with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	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 - : bad overburnoit and casing location p 19M, drill a site supervise	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. d on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1300 2100 0:00 2100 0:00 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00 	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>THE DATE :</b> <b>Duration</b> 6.00 6.00 9.00 9.00 9.00	continue re- trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting. ait on shoe bit e waiting. ait on shoe bit e weiting with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or	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 - : Pad overburn bit and casing location p 19M, drill a site supervis	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M siors, discus	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I	NTROL Desilter N/A N/A N/A e shoe bit wa , crew worker back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. d on suppy , cement
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1300 2100 0:00 0:00 2100 0:00 2100 0:00	SUMMARY FOR 1 To 1300 1900 2100 0:00 	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools <b>THE DATE :</b> <b>Duration</b> 6.00 6.00 9.00 9.00	continue re- trip out a ho pump while continue wa make up ne casing. Held safety	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 aming back to ble while waiting. ait on shoe bit waiting. ait on shoe bit we bit, ream ca reading with reading with	4,2011 0 19 M, really ng on shoe to to arrive on asing back to crew and or crew and or e, tag cement	Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Calc Hole Fill (0000 hrs - 2 bad overburn bit and casing location p 19M, drill a site supervise main and drill ah	ITROL N/A N/A N/A 2400 hrs) Event den , got ba to arrive fr from 19 M siors, discus	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: ack to 19M the om Deer Lake to 25M, pull I ssed traveling	NTROL Desilter N/A N/A N/A e shoe bit wa , crew worked back to 24M	N/A N/A Centrifuge N/A N/A N/A (to 24:00) s woren out. d on suppy , cement
Flat Bay	Test Hole # CH	-17				REPORT #:	5	DATE:	Ser	ot 25.2011
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DEPTH 24:00:	Om		PROGRESS	19M 1	to 25M	Last 24 Hr Rot	ating Time:		Ave ROP:	,
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
						·				
	BIT PERFOR					DRILLIN	G FLUID		PUMPS	5
Bit No.	_				1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)				
m/br						OII (%) Df/Mf		Mud Cycle		min
								Bottoms Up		m2
Cullinis	ļ					CL (nnm)		Hole Volume		m3
BOTTOMH				1		Ca (ppm)		System Vol		m3
No	ltem	Max OD	Min ID	Connection S	Size & Type	Ca (ppin)		System voi.		115
1	lion	Max OD						2 PAILS DD120	0	
2						Mud Co.			-	
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @			5	bags of portland
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIONS TI	ME BREAK	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging				WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :		Sept 2	5,2011	(0000 hrs -	2400 hrs)			
From	То	Duration				E	Event			
0700	1900	24	Wait on cer	ment to set up	. Went in to	tag cement @	10m. Cont	tinued to wait o	on cement to	prior
			to drilling o	ut. The cemer	nt job was su	iccessful. Lag	ged cemer	nt@9m and dri	lled cement	down to 34m
			logan drillin	ig then realize	that the orig	ginal nole dep	th (25)m Wa	as incorrect the	e correct dril	ling depth was
			was set at	24m leaving 2	10m of open	hole in overb	urden Due	to this incorre	ct casing de	asing
			have no we	ell control and	I no way to n	ressure test o	casing beca	use it should h	have been s	et at 33m
							Jacing 2000			
			Held a mee	ting to discus	s the importa	ance of keepi	ng a pipe ta	ally.		
					•	•	0			
							·			
			-							
24 HOUR F	orcast :									
Cement cas	sing to surface. Sk	id rig 4m ba	ck from oriai	nal site and st	tart over.					
	5	<u> </u>	3		-					

Flat Bay	Test Hole # Cl	17				REPORT #:	6	DATE:	Sep	ot 26,2011
DEPTH 24:00:	0m		PROGRESS:	43.	0 m	Last 24 Hr Rota	ating Time:	I	Ave ROP:	
OPER 09:00:			1			FOREMAN: H.HY	(NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8°C	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	ro	ough		
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	5
Bit No.		_			1.00 °	Time		Pump No.		
Size (mm)	NQ					Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						pН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		MU	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT OL(1999)		Tanks		m3
DOTTOMU						CI (ppm)		Hole Volume		m3
BOLIOMH				Connection		Ca (ppm)		System Vol.		m3
INO.	Item	Max OD		Connection a	Size & Type	-			u <del>.</del>	
2				-		Mud Co		2 BAUL DD 1200		
2						Mud Mon		3 PAIL DD 1200	)	
BHA Length:		Hook Load:			XXX	Mud Up @				
Avail WOB		Its DP Backs		DC Conn:	XXX	Muu op @				
					vvv		м <sup>3</sup>			
Jts DP in hole:		DP on Loc:		DP Conn:	***	VOLUMES	IVI			
DRILLING	OPERATIONS TI	<u>ME BREAKI</u>	DOWN	T	1	Water added		Mud Daily Cost		
DII (TO		Survey		Move Rig		Losses		Mud Cum Cost		
RU/10										
Drill w/ fluid		Logging				WELL CON		SULIDS CU		N1/A
Drill w/ fluid Drill w/ air		Logging Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Drill w/ fluid Drill w/ air Reaming		Logging Run Casing Cementing		WO Materials WO Services		RSPP ST/Min	N/A	Shaker Make Shaker Mesh		N/A N/A
Drill w/ fluid Drill w/ air Reaming Rm Rathole		Logging Run Casing Cementing WOC		WO Materials WO Services Safety Meeting		WELL CON RSPP ST/Min MACP(kPa)	N/A N/A	Shaker Make Shaker Mesh		N/A N/A Centrifuge
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ		Logging Run Casing Cementing WOC NU BOP's		WO Materials WO Services Safety Meeting Mix mud		WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	N/A N/A	Solids Col Shaker Make Shaker Mesh Vol UF (I/min)	Desilter N/A	N/A N/A Centrifuge N/A
Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Big		Logging Run Casing Cementing WOC NU BOP's Test BOPs		WO Materials WO Services Safety Meeting Mix mud Install Wellhead		WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	N/A N/A N/A	Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	Desilter N/A N/A	N/A N/A Centrifuge N/A N/A
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Renair Rin		Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt		WO Materials WO Services Safety Meeting Mix mud Install Wellhead		WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	N/A N/A N/A	Solid Scol Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A
rto / To Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig		Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST		WO Materials WO Services Safety Meeting Mix mud Install Wellhead		WELL CON RSPP ST/Min MACP(KPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill	N/A N/A N/A	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boilar Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (n 24:00)
Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing		Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools		WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs		WELL CON RSPP ST/Min MACP(KPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Act Hole Fill	N/A N/A N/A	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S	SUMMARY FOR T	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE :		WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2	6 2011	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2	N/A N/A N/A N/A	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
rti w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 07700	SUMMARY FOR T To	Logging Run Casing Cementing WOC NU BOP'S Test BOP'S Drill Out Cmt DST Hndle Tools HE DATE : Duration		WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2	6 2011	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1	N/A N/A N/A N/A 2400 hrs) vent 2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
rto / To Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1600	SUMMARY FOR T To 1600	Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3 00	SKID RIG 4	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Im from ch7 to 2 m to 25 m	6 2011 o ch 7-2. Drill	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from Om to 1	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
rti v/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900	Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools <b>HE DATE :</b> <b>Duration</b> 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Im from ch7 to 2m to 25m	6 2011 o ch 7-2. Drill	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from Om to 1	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
rti v/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 2m to 25m 5m to 43m all of	6 2011 o ch 7-2. Drill overburden	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from Om to 1	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
rti v/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 2m to 25m 5m to 43m all o	6 2011 o ch 7-2. Drill overburden	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from Om to 1	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 2m to 25m 5m to 43m all o	6 2011 o ch 7-2. Drill overburden	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
rto / to Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all o CH7 to surfac	6 2011 o ch 7-2. Drill overburden	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
rto / to Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac	6 2011 o ch 7-2. Drill overburden e prior to skia kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / IO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac	6 2011 o ch 7-2. Drill overburden e prior to skia kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / IO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac ting prior to sh	6 2011 o ch 7-2. Drill overburden e prior to skia kidding rig wi	WELL CON RSPP ST/Min MACP(KPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / IO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / IO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 tc 2m to 25m 5m to 43m all of CH7 to surfac	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / IO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / IO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig <b>24 HOUR S</b> <b>From</b> 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig <b>24 HOUR S</b> <b>From</b> 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac ting prior to sl	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           VA           VA           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900 1900 1900 1900	SUMMARY FOR T To 1600 1900 0700	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 tc 2m to 25m 5m to 43m all of CH7 to surfac tting prior to sl	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           VA           VA           VA           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700 1600 1900	SUMMARY FOR T To 1600 1900 0700 	Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 9 3.00 1200	SKID RIG 4 drill from 12 drill from 25 Cemented 0 Held a mee	WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Sept 2 Am from ch7 to 22m to 25m 5m to 43m all of CH7 to surfac ting prior to sl	6 2011 o ch 7-2. Drill overburden e prior to skid kidding rig wi	WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill (0000 hrs - 2 E from 0m to 1 dding rig. th crew	IROL           N/A           N/A           N/A           N/A           2400 hrs)           vent           2m	Shaker Make Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)

Flat Bay	Test Hole # C	H7				REPORT #	6	DATE	Ser	ot 27,2011
DEPTH 24:00:	Om	• • •	PROGRESS	: 43.0	0 m	Last 24 Hr Rot	ating Time:	DATE.	Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8°C	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	ſ	rough		
				-						
	BIT PERFOR	RMANCE	1			DRILLIN	G FLUID		PUMPS	3
Bit No.					1.00 °	Time		Pump No.		
Size (mm)	NQ					Depth(m)		Make		
Mitg.						Density		Model		
Serial #						Widu Grau Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?								M	UD & CHEN	
weters						OII (%) Df/Mf		Mud Cycle		min
Cum Hrs						MBT		Bollonis Op Tanks		m3
ouintillo	1					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY	/		<u> 1</u>		Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	***		3			
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M°			
DRILLING	OPERATIONS TI	ME BREAK	DOWN	1		Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging				WELL CON		SOLIDS CO	NIROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP ST/Min	IN/A	Shaker Make		_N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A	Shaker Wesh	Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR 1	THE DATE :		Sept 2	7 2011	(0000 hrs -	2400 hrs)			
From	То	Duration				E	Ivent			
0700	0700	24.00	DRILL FRO	DM 52m TO 58	3m with nq ro	ods				
			drill FROM	51m to 5/m w	vith nw casin	g				
-			drill from 5	7m to63m with	n ng rous					
			drill from 64	4m to 70m with	n ng rods					
			drill from 6	3m to 69m with	n nw casing					
					<b>J</b>					
			The hole is	at 73m Casir	ng is at 69m	at this point i	n time.			
			0m to 46.4	m overburder/	(sand, clay,	pebbles, bou	llders)			
			46.4m to 5	2.0m Gypsun	N dam (aamal a		h			
			52.0m to 6	4.0m/ overburg	den (sand, d	clay, cobbles,	boulders)			
			70 0m to 7	3.0m/ Δnh	vdrate					
-					yuluto					
			Hole is drill	ed to 73.0m (	Casing is pre	sently at 69m	Currently	been drilled to	o 73.0m	
			We will cer	nent casing at	72m	,				
24 HOUR F	orcast :									
IRun NW Ca	asing down to 72n	n, cement ca	sing and wh	ile waiting on o	cement to ha	arden, nipple	up deverte	r, drill out and	presure test	prior to coring.

Flat Bay	Test Hole # C	Н <b>F-</b> В Т-Н # 7	7			REPORT #:	6	DATE:	Septem	ber 28, 2011
DEPTH 24:00:	0m		PROGRESS:	73.	.0 <u>m</u>	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 78	0-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8°C	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	I	rough		
	BIT PERFOR	RANCE				DRILLIN	g fluid		PUMPS	
Bit No.						Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						ΥP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?										CALS
Meters								Mud Cycle		min
m/nr								Bottoms Up		min
Cum Hrs								Tanks		m3 m2
POTTOMU				<u>  </u>						
BUTTOWIN			Min ID	Connection		Ca (ppm)		System Vol.		m3
1	ltem	Max OD	Ulin עו	Connection 3	Size & Type					
2	<del> </del>	-				Mud Co		I		
- 3	<u> </u>	+	+	┨─────		Mud Man				
RHA Length		Hook Load.	J		ХХХ	Mud Lip @				
Avail WOB:		Its DP Racks		DC Conn;	XXX					
					~~~		м <sup>3</sup>	-1		
Jts DP in noie:		DP on Loc:		DP Conn:	777	VULUWES	Ivi	_		
	OPERATIONS II			I p:-	1	Water added		Mud Daily Cost		
RU/IO		Survey		Move Rig		Losses		Mud Cum Cosi		
Drill w/ fluid		Logging				WELL CON	TROL	SOLIDS CO	NIROL	N1/A
Drill w/ air -		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min	ΝΙ/Δ	Shaker wesh	Desiltor	N/A
Rm Rathole		WUC		Safety Meeting		MACP(kPa)	N/A	(al LE (l/min)	Desilter	Centriruge
Cond / Circ				Mix mua		Calc Hole Fill	Ν/Δ			
Lubricate Rig		Drill Out Cmt		Install weineau			11/7	O = (kg/m3)		N/A
Lubricate Rig						LST BOP DIIII.		U.F. (Ky/III3) Hours/Dave	N/A	N/A
		USI		T 1 1				Poilor Hre	Ny ra	(10.24:00)
Fishing		Hndle 100is		Total Hrs		Act Hole Fill		BUIIEI LIIS.		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :		Sept 2	8 2011	(0000 hrs - 1	2400 hrs)			
From	T0	Duration	DEAMON		0. TO 70	E	vent			
0700	0700	24.00	REAM CAS	SING FROM 6	9m TO 72m					
			CEMENTE	IOLE AT 72m	WAIT ON C		JR TU DR			
		-								
			safety mee	ting with crew	and onsite s	supervisors to	prior to dr	ill out		
			, í							
					-					
24 HOUR F	orcast :									
DRILL OUT	CEMENT PRES	SURE TEST	RIG UP DIV	/ERTER AND	RUN in HO	LE AND COF	RE			

Flat Bav	Test Hole # CH	-17				REPORT #:	9	DATE:	Septer	nber 29. 2011
DEPTH 24:00:	100m	<u>ו</u>	PROGRESS	: 15	0m	Last 24 Hr Rota	ating Time:	5,112.	Ave ROP:	
OPER 09:00:					-	FOREMAN: H.H	YNES		MOBILE NO .: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	ro	ough		
	BIT PERFOR					DRILLIN	G FLUID		PUMPS	5
Bit No.					1.00 °	Time		Pump No.		-
Size (mm)	NQ					Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						01.00		MI		
Meters						OII (%)		Mud Cycle		min
m/nr								Bottoms Up		min
						IVID I CL (ppm)		Tanks Hole Volume		m3
BOTTOMH						Cr (ppin)				m2
No		Max OD	Min ID	Connection S	Size & Type	Ca (ppili)		System vol.		1113
1	item	Max OD		Connection		-				
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>	1		
Jts DP in hole:	OPERATIONS TH	DP on Loc:	DOWN	DP Conn:	XXX		M <sup>3</sup>	Mud Daily Cost		
Jts DP in hole: DRILLING RU / TO	OPERATIONS TI	DP on Loc: ME BREAKI Survey	DOWN	DP Conn:	XXX	VOLUMES Water added Losses	M <sup>3</sup>	Mud Daily Cost		
Jts DP in hole: DRILLING RU / TO Drill w/ fluid	OPERATIONS TI	DP on Loc: ME BREAKI Survey	DOWN	DP Conn: Move Rig	XXX	VOLUMES Water added Losses WELL CON	M <sup>3</sup>	Mud Daily Cost Mud Cum Cost	NTROL	
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air	OPERATIONS TI	DP on Loc: <b>ME BREAKI</b> Survey Logging Run Casing	DOWN	DP Conn: Move Rig WO Materials	xxx	VOLUMES Water added Losses WELL CON	M <sup>3</sup> TROL	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming	OPERATIONS TI	DP on Loc: <b>ME BREAKI</b> Survey Logging Run Casing Cementing	DOWN	DP Conn: Move Rig WO Materials WO Services	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min	M <sup>3</sup> TROL N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mash	NTROL	_N/A N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	OPERATIONS TI	DP on Loc: <b>WE BREAKI</b> Survey Logging Run Casing Cementing WOC	DOWN	DP Conn: Move Rig WO Materials WO Services Safety Meeting	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa)	M <sup>3</sup> TROL N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL Desilter	_N/A N/A Centrifuge
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	OPERATIONS TI	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's	DOWN	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	M <sup>3</sup> TROL N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	NTROL Desilter N/A	_N/A N/A Centrifuge N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping	OPERATIONS TI	DP on Loc: ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs	DOWN	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	NTROL Desilter N/A N/A	N/A N/A Centrifuge N/A N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig	OPERATIONS TI	DP on Loc: <b>WE BREAK!</b> Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt	DOWN	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3)	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig	OPERATIONS TI	DP on Loc: <b>WE BREAK!</b> Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST	DOWN	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing	OPERATIONS TI	DP on Loc: <b>WE BREAK!</b> Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools	DOWN	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead	xxx	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill	M <sup>3</sup> TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR \$	OPERATIONS TI	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE :	DOWN	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe	XXX 7729, 2011	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs)	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From	OPERATIONS TI	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration	DOWN	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe	XXX	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs)	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI SUMMARY FOR T To 0700	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	DOWN presure tes	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe st up to 500 PS	XXX r 29, 2011	VOLUMES Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2 E ure for 10 mir	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs) Event ns, no leaks	Mud Daily Cost Mud Curn Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI SUMMARY FOR T To 0700	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	DOWN presure tes held safety	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe st up to 500 PS meeting with	XXX r 29, 2011 SI held press crew and on	VOLUMES Water added 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 - 2 E ure for 10 mir site supervis	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs) Event ns, no leaks iors prior to	Mud Daily Cost Mud Curn Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
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Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TIL	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	DOWN  presure tes held safety drill nq rods stopped dri	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe st up to 500 PS meeting with s from 73m to illing wait until	xxx r 29, 2011 SI held press crew and on 150m word from o	VOLUMES Water added 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 - 2 E ure for 10 mir site supervis	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs) ivent ns, no leaks iors prior to ead to drill o	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: drilling ahead	NTROL Desilter N/A N/A N/A N/A	_N/A N/A Centrifuge N/A N/A N/A (to 24:00)
Jts DP in hole: DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TIL	DP on Loc: WE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	DOWN  presure tes held safety drill nq rods stopped dri	DP Conn: Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Septembe st up to 500 PS meeting with s from 73m to illing wait until	xxx r 29, 2011 SI held press crew and on 150m word from o	VOLUMES Water added 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 - 2 E ure for 10 mir site supervis	M <sup>3</sup> TROL N/A N/A N/A 2400 hrs) ivent ns, no leaks iors prior to ead to drill o	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: drilling ahead	NTROL Desilter N/A N/A N/A N/A	_N/A N/A Centrifuge N/A N/A N/A (to 24:00)
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Flat Bay	Test Hole # Cl	F-B T-H #	7			REPORT #:	8	DATE:	septerr	ber 30 2011
DEPTH 24:00:	150.0	m	PROGRESS	: 220	)m	Last 24 Hr Rot	ating Time:		Ave ROP:	
OPER 09:00:			1			FOREMAN: H.H	YNES		MOBILE NO.: 78	0-667-8775
DAILY COST:			HOLE CND .:			WEATHER:	SL	Innny	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		22c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:				
	BIT PERFOR			11			G FI UID	1	PUMPS	
Bit No	DITTER			h		Time		Pump No		
Size (mm)						Depth(m)		Make		
Mfa.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						pН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						. ,		M	UD & CHEMI	CALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						МВТ		Tanks		m3
	1					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY		•			Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	ize & Type			-)		
1								28 bags of port	and	
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Ite DR in hole:		DB on Loo:		DB Conni	XXX		M <sup>3</sup>			
				Di Conn.	/////					
	OPERATIONS TI			Maura Dia		vvater added		Mud Daily Cost		
RU/10		Survey		Nove Rig		LOSSES	TROI			
Drill w/ fluid		Logging				WELL CON		SOLIDS CO	NIROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min	NI/A	Shaker Mesh	Desilter	IN/A
Rm Rathole		WUC		Safety Meeting			IN/A		Desilter	Centrifuge NI/A
Cond / Circ		NU BOP'S		wix mud		Calc Hole Fill	NI/A		N/A	N/A
Lubricato Rig		Drill Out Cmt		instali welineau			IN/A	O.F. (kg/m3)	N/A	N/A
Lubricate Rig						Colo Holo Fill		U.F. (kg/III3) Hours/Dave	N/A	N/A
				Tatal Una				Roilor Hrs:	DV/A	(to 24:00)
Fishing		Hndle I ools		Total Hrs		Act Hole Fill		DUIIEI HIS.		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	1	sept 29	9 2011	(0000 hrs -	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24.00	WALL ON	WORD FROM	OFFICE IC	CONTINUE	DRILL NQ	RODSFROM	1150m IO1	99m PULL OUT
			RUN BACI	K TO BOTTOM	DRILL FRO	JM 199m to 2	220m			
			-							
			safety mee	ting with crew	and on site	supevisors				
			Survey mee			040010010				
24 HOUR F	orcast :		-							
drill to td ce	ment and demobi	lize ria to ne	xt location							
1		0								

Flat Bay	Test Hole # C	Н <b>F-</b> В Т-Н # 7	7			REPORT #:	11	DATE:	OCTO	BER 1 2011
DEPTH 24:00:	150N	Л	PROGRESS:	22	OM	Last 24 Hr Rot	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 78	30-667-8775
DAILY COST:			HOLE CND.:			WEATHER:	RA	NING	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		6C	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:				
	BIT PERFOR	RMANCE				DRILLIN	g fluid		PUMPS	
Bit No.						Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition Bulled For2						Sanu (%)		MI		
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Lin		min
Cum Hrs						MBT		Tanks		m3
o din Thio						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY	,	1			Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	(FF)			1	
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX		3			
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M			
DRILLING	OPERATIONS TI	ME BREAKI	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging				WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh	_	N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	N1/A	Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		U.F. (kg/m3)	N/A	N/A
Repair Rig				T- 4-1 1 1				Roilor Urc:	IN/A	(10,24,00)
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Doller Fils.		(10 24.00)
24 HOUR S		HE DATE :	T	OCTOBE	R 1 2011	(0000 hrs - 1	2400 hrs)			
From	10	Duration					vent	a amontiah		
0700	0700	24.00	Comont bol	e back to surf	ace with 180	Okam3 get re	adv to dem	blize rig to per	xt location	
						okgino gerie	auy to demo	Slize fig to fier	NI IOCALION	
			good oil she	ows bubbling	from matrix a	and clast bou	ndaries at 2	20m; porosity	visually esti	mated at
			8-10%	100% core re	covery					
			hald asfate							
			neid safety	meeting with	crew prior to	cementing				
24 HOUR F	orcast :									
core										
1										

FB TH-6						REPORT #:	12	DATE:	Oct	t 2/ 2011
DEPTH 24:00:	100n	า	PROGRESS	: 15	0m	Last 24 Hr Rot	ating Time:		Ave ROP:	
OPER 09:00:			1			FOREMAN: H.H	YNES		MOBILE NO.: 78	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		rain	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		6c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	MANCE				DRILLIN	G FLUID		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)	NQ					Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?								MU	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pt/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
DOTTOM						CI (ppm)		Hole Volume		m3
BOLLOWH				Composition (	0:	Ca (ppm)		System Vol.		m3
NO.	Item	Max OD	IVIIN ID	Connection	Size & Type	-				
- 1						Mud Ga				
2						Wud Man				
J BHA Langthi		Haak Laadi		DD eize	XXX	Mud Up @				
Avoil WOR:		HOOK LOAU.		DP Size	XXX	widd Op @				
Avair WOB.		JIS DF RACKS		De conn.			3			
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOI UMES	IVI			
DRILLING	OPERATIONS TI	ME BREAKI	DOWN	1	1	Water added		Mud Daily Cost		
DRILLING RU / TO	OPERATIONS TI	ME BREAKI Survey	DOWN	Move Rig		Water added		Mud Daily Cost Mud Cum Cost		
DRILLING RU / TO Drill w/ fluid	OPERATIONS TI	ME BREAKI Survey Logging	DOWN	Move Rig		Water added Losses WELL CON	ITROL	Mud Daily Cost Mud Cum Cost	NTROL	
DRILLING RU / TO Drill w/ fluid Drill w/ air	OPERATIONS TI	ME BREAKI Survey Logging Run Casing	DOWN	Move Rig WO Materials		Water added Losses WELL CON	ITROL N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	<u>N/A</u>
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing	DOWN	Move Rig WO Materials WO Services		Water added Losses WELL CON RSPP ST/Min	ITROL N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mash	NTROL	N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC	DOWN	Move Rig WO Materials WO Services Safety Meeting		Water added Losses WELL CON RSPP ST/Min MACP(kPa)	ITROL N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	Desilter	N/A N/A Centrifuge
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's	DOWN	Move Rig WO Materials WO Services Safety Meeting Mix mud		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	ITROL N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	Desilter N/A	N/A N/A Centrifuge N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs	DOWN	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	ITROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3)	Desilter N/A N/A	N/A N/A Centrifuge N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt	DOWN	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	ITROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3)	Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST	DOWN	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	ITROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Dailed Leve	Desilter N/A N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Caic Hole Fill Act Hole Fill Lst BOP Drill: Caic Hole Fill Act Hole Fill	ITROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2	/2011	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs -	ITROL N/A N/A N/A 2400 hrs)	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2	/2011	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Caic Hole Fill Act Hole Fill Lst BOP Drill: Caic Hole Fill Act Hole Fill (0000 hrs -	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI SUMMARY FOR T To 0700	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig	/2011 g to new loca	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Caic Hole Fill Lst BOP Drill: Caic Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - Eation	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI SUMMARY FOR T To 0700	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	DOWN continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig	2/2011 g to new loca	Water added 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 - Eation	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SolIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI SUMMARY FOR T To 0700	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	COMN continue to safety mee	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	2/2011 g to new loca	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SolIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	CONTINUE TO SAFETY MEE	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	2/2011 g to new loca	Water added 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 - Eation	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost Solid College Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added 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 - Eation	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added 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 - Eation	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added 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 - Eation	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	2/2011 g to new loca	Water added 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 - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A n/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	2/2011 g to new loca	Water added 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 - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A n/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	2/2011 g to new loca	Water added 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 - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added 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 - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig	g to new loca	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to safety mee	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added 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 - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to safety mee	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added 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 - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A n muddy loca	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to safety mee	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added 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 - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A n muddy loca	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Continue to safety mee	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	g to new loca	Water added 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 - Eation azards of mo	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A n muddy loca	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	OPERATIONS TI	ME BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	DOWN continue to safety mee	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 2 demobilize rig ting with crew	to discuss h	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill attion	ITROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	n muddy loca	N/A N/A Centrifuge N/A N/A N/A (to 24:00)

FB TH-6						REPORT #	13	DATE	00	ct 3/2011
DEPTH 24:00:	Ωm		PROGRESS	10	h	Last 24 Hr Rota	ating Time:	DATE.		. 0/2011
OPER 00:00:	UIII		FROGRESS.	13	////					90 667 9775
OPER 09.00.							INES	rain	TOOL PLICE	00-007-0775
DAILY COST:			HOLE CND.:			WEATHER:		Taili	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		60	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	ſ	bugn		1
		*		1		1		1		
	BIT PERFOR	MANCE	1			DRILLING	g fluid		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)	NQ					Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						. ,		М	UD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle	1	min
m/hr						Pf/Mf		Bottoms Lin		min
Cum Hrs						MBT		Tanks		m3
Cullinis								Hole Volume		m3
POTTOMU										
				Connection		Ca (ppm)		System Vol.		ma
INO.	nem	Max OD		Connection a	size & Type	-				
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX		2	-		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M°			
						Materia a dala d		Mud Daily Cost		
DRILLING	OPERATIONS TH	ME BREAKI				vvater added		widd Daily Cost		
RU / TO	OPERATIONS TI	Survey		Move Rig		Losses		Mud Cum Cost		
RU / TO Drill w/ fluid	OPERATIONS TH	VIE BREAKI Survey Logging		Move Rig		Losses	TROL	Mud Daily Cost Mud Cum Cost	NTROL	
DRILLING RU / TO Drill w/ fluid Drill w/ air		VIE BREAKI Survey Logging Run Casing		Move Rig WO Materials		Losses WELL CON	TROL N/A	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make	NTROL	N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming		VIE BREAKI Survey Logging Run Casing Cementing		Move Rig WO Materials WO Services		Water added Losses WELL CON RSPP ST/Min	TROL N/A	Mud Daily Cost Mud Cum Cost Solid Com Shaker Make Shaker Mesh	NTROL	_N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole		VE BREAKI Survey Logging Run Casing Cementing WOC		Move Rig WO Materials WO Services Safety Meeting		Water added Losses WELL CON RSPP ST/Min MACP(kPa)	TROL N/A N/A	Mud Daily Cost Mud Cum Cost SolliDS CO Shaker Make Shaker Mesh	Desilter	_N/A N/A Centrifuge
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ		VIE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's		Move Rig WO Materials WO Services Safety Meeting Mix mud		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	TROL N/A N/A	Mud Dany Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	NTROL Desilter N/A	N/A N/A Centrifuge N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping		VIE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	TROL N/A N/A N/A	Mud Dairy Cost Mud Cum Cost SolLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	Desilter N/A N/A	N/A N/A Centrifuge N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig		VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Vater added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lat BOP Drill:	TROL N/A N/A N/A	Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3)	Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig		VIE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill	TROL N/A N/A N/A	Mud Cum Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	NTROL Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Eisbing		VIE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Horde Tools		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill	TROL N/A N/A N/A	Mud Cum Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing		VIE BREARI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs		Water added Losses WELL CON RSPP ST/Min MACP(KPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill	TROL N/A N/A N/A	Mud Dahy Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S Ecom	SUMMARY FOR T	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration		Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 3/	/ 2011	Vivater added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2	TROL N/A N/A N/A	Mud Dahy Cost Mud Cum Cost SolLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From	SUMMARY FOR T	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration	Sofetu moo	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 3/	/ 2011	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2	TROL N/A N/A N/A 2400 hrs) vent	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh U.F. (kg/m3) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREARI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HEIDATE : Duration 24.00	Safety mee	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 3/ ting held with	2011 crew and or	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2 E site supervision	TROL N/A N/A N/A 2400 hrs) vent iors prior to	Mud Cum Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh U.F. (kg/m3) U.F. (kg/m3) Hours/Days Boiler Hrs: o drilling ahea	NTROL Desilter N/A N/A N/A N/A d.	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HINDIA Cont HINDIA Cont HE DATE : Duration 24.00	Safety mee Drill NW ca	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 3/ ting held with sing from 0m	/ 2011 crew and or to 11m over drack and br	Viater added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 E site supervisi burden	TROL N/A N/A N/A 2400 hrs) vent iors prior to	Mud Cum Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: o drilling ahea	NTROL Desilter N/A N/A N/A N/A d.	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HID Out Cmt DST HID Out Cmt DST HE DATE : Duration 24.00	Safety mee Drill NW ca drill from 12	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 3/ ting held with sing from 0m Im to 19m beg	/ 2011 crew and or to 11m over drock and h	Vivater added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 E site supervisi burden ydrate	TROL N/A N/A N/A 2400 hrs) vent iors prior to	Mud Cum Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: o drilling ahea	NTROL Desilter N/A N/A N/A N/A d.	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Safety mee Drill NW ca drill from 11 Set casing a	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 3/ ting held with sing from 0m Im to 19m be at 19m and ce	2011 crew and or to 11m over drock and hy ement app	Vivater added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E site supervisi burden ydrate roximately 8m	TROL N/A N/A N/A 2400 hrs) vent iors prior to iors prior to	Mud Cum Cost Mud Cum Cost SolLIDS CO Shaker Make Shaker Mesh U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: o drilling ahea ck	NTROL Desilter N/A N/A N/A N/A d.	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Safety mee Drill NW ca drill from 11 Set casing a	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 3/ ting held with sing from 0m Im to 19m be at 19m and ce	2011 crew and or to 11m over drock and hy ement appr	Viate added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E site supervisi burden ydrate roximately 8m	TROL N/A N/A N/A 2400 hrs) vent iors prior to iors prior to	Mud Cum Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A d.	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24.00	Safety mee Drill NW ca drill from 11 Set casing a	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs Oct 3/ ting held with sing from 0m Im to 19m be at 19m and ce	2011 crew and or to 11m over drock and hy ement appr	Vater added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - 2 E site supervisi burden ydrate roximately 8m	TROL N/A N/A N/A 2400 hrs) vent iors prior to into bedro	Mud Cum Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: o drilling ahea ck	NTROL Desilter N/A N/A N/A N/A d.	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
DRILLING RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HIC DATE : Duration 24.00	Safety mee Drill NW ca drill from 11 Set casing a	Move Rig WO Materials WO Services Safety Meeting Mix mud Install Wellhead Install Wellhead Total Hrs Oct 3/ ting held with sing from 0m 1 Im to 19m be at 19m and ce	2011 crew and or to 11m over drock and hy ement appr	Viate added 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 - 2 E a site supervisi burden ydrate roximately 8m	TROL N/A N/A N/A 2400 hrs) vent iors prior to into bedro	Mud Cum Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A d.	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
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FB test h	ole #6					REPORT #:	1	DATE:	Oct	4th 2011
DEPTH 24:00:	11	n	PROGRESS	: 12	1m	Last 24 Hr Rota	ating Time:	1	Ave ROP:	
OPER 09:00:						FOREMAN: H.HY	/NES		MOBILE NO .: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		rain	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		6c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFO	RMANCE				DRILLIN	G FLUID		PUMPS	
Bit No.				-	1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs	ļ					MBT		Tanks		m3
DOTTOMU		×				CI (ppm)		Hole Volume		m3
BOLIOWH		Y		Composition (	0:	Ca (ppm)		System Vol.		m3
NO.	Item	Max OD	Min ID	Connection	Size & Type	-				
- 1									1	
2	-		1			Mud Man		3 bags of portia	na	
J BHA Longthi		Haak Laadi		DD eize	XXX	Mud Up @				
		HOOK LOAU.		DP Size	XXX	widd Op @				
Avail WOB.		JIS DF Racks		DC Conn.			M <sup>3</sup>			
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	IVI			
DRILLING	OPERATIONS T	IME BREAK	DOWN	1	1	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	IROL	SOLIDS CO	NIROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		
Reaming		Cementing		WO Services		ST/Min	N1/A	Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting			IN/A		Desliter	Centrifuge
		NU BOP'S		wix mua		Calc Hole Fill	NI/A		N/A	N/A N/A
Lubricate Dig		Drill Out Creat		Install Weineau				O.F. (kg/m3)	N/A	N/A
Repair Pig		DINI OUL CINL				Calc Hole Fill		Hours/Davs	N/A	N/A
Fiching		Hadla Toola		Total Hrs				Boiler Hrs	14/7	(to 24:00)
		HINGE TOOIS	0 / /// 00	Total His				Doller 113.		(10 24.00)
24 HOUR S	SUMMARY FOR	THE DATE :	Oct 4th 207	1		(0000 hrs - 2	2400 hrs)			
From	10	Duration	a of other man	ting with grow	and an aita	E	vent	vooth or oonditi		
0700	0700	2411	salety mee	ling with crew	and on site	supervisions d	iscussed v	veather conditi	ons and sale	ely
	-		Drillod out	comont from 9	Pro to 11m					
			Prossure to	certent from c	for 10 mine of	lood test				
			Nipple up o	everter prior t	to drilling abe	ad				
			Drill NO ro	ds from 11m to	o 43m	200				
			Drill NQ ro	ds from 43m to	o 121m					
24 HOUR F	orcast :									
Drill ahead	to find conglome	rate								
1										

FB test h	ole #6					REPORT #:	1	DATE:	Oct	t 5th 2011
DEPTH 24:00:	121m	า	PROGRESS:	20	2m	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		rain	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		6c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	rc	ough		
	BIT PERFOR					DRILLIN	g fluid		PUMPS	5
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						pН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		MU	JD & CHEN	IICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY					Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	_				
1						-				
2						Mud Co.		3 bags of portlar	nd	
3					~~~	Mud Man				
BHA Length:		HOOK LOAD:		DP size		wing ob @				
AVali WOB:		JIS DP Racks		DC Conn:	~~~	_	3	-		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M			
DRILLING	OPERATIONS TI	ME BREAK	DOWN	I		Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		_N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh	-	N/A
Rm Rathole		woc		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	N1/A	Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	IN/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		U.F. (kg/m3)	N/A	N/A N/A
		031		<b>T</b>				Roilor Hro	N/A	IN/A
Fishing		Hndle Tools		I otal Hrs		Act Hole Fill		DUIIEI HIS.		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct 5,2011			(0000 hrs - 2	2400 hrs)			
From	To	Duration	0.4.4			E	vent		1.0	
0700	0700	24nr	Safety mee	ting with crew	and weathe	errord and on a	site supervi	siors, discusse	ed the impol	tance
			Drill NO roo	and waxing o	to 100m					
			Erom 100m	to 202m coll	locted 6 corr	soctions from	n the condu	omorato		
			Wayed all 6				In the congi	Jinerale		
			Waxed an e	, , , , , , , , , , , , , , , , , , , ,						
			Core interva	als collected	193.0m to 1	93.44m				
			193.7m to 1	194.10m						
			195.58m to	196.0m						
			198.0m to 1	198.40m						
			199.89m to	200.28m						
			201.5m to 2	202.0m						
24 HOUR F	orcast :									

Elet here	Toot Llolo #4						4.4			CHL 0044
Flat Day	Test noie #4			40	2	REPORT #:	14	DATE:	JOCI	6th,2011
DEPTH 24:00:	Um		PROGRESS	: 40	om	Last 24 Hr Rot	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 78	30-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		cold but clea	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		6c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	RMANCE				DRILLIN	G FLUID		PUMPS	<u></u>
Bit No		1			1.00 °	Time		Pump No		
Size (mm)						Depth(m)		Make		
Mfg						Dopaity		Madal		
Tupo						Mud Grad				
Type Seriel #						Muu Grau				
Senal #						VIS		5PM		
Nozzies						PV		Pump Eff.		
From (mKB)						ΥP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	UD & CHEM	CALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						мвт		Tanks		m3
	1					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY	(				Ca (ppm)		System Vol		m3
No	Item	Max OD	Min ID	Connection S	Size & Type	ou (ppiii)		Cystem vol.		
1				Connection						
2								-		
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX		2	_		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M°			
DRILLING	OPERATIONS T	ME BREAK	DOWN			Water added		Mud Daily Cost		
RU/TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing						
Drill w/ Itula		Logging Due Casier		Fishing				Social Make		NI/A
Drill w/ air		Run Casing		WO Materials		RSPP	IN/A	Shaker Make		
Reaming		Cementing		WO Services		ST/Min	N1/A	Shaker Mesh		IN/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	IN/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (I/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR	THE DATE :	Oct 6th 20	1		(0000 hrs -	2400 hrs)			
From	To	Duration	0000000,20	•		(00001110 F	vent			
0700	0700	24hr	Safety mee	ting with crow	and onsite		rior to mov	ina ria across	highway to n	ext location
0700	0700	24111	Einished te	aring with ciew	and onsite s	w location P	ut on flat be	ad to move acr	ngnway to n	
			Pig up rig (	aning out ng to	watarling for		ut on hat be	eu lo move aci	035 Highway	
				do from Om to	46m	pump				
			Drill NQ 10	us morn onn to	40111					
			Suir in over	Duluen						
			-							
			_							
			_							
			_							
24 HOUR P	orcast ·									

Flat bay	Test Hole #4					REPORT #:	15	DATE:	Oct	t 7th.2011
DEPTH 24:00:	43m		PROGRESS:	10	3m	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.HY	/NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		5c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
			•							
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	5
Bit No.		_			1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	JD & CHEM	IICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pt/Mf		Bottoms Up		min
Cum Hrs						MB I		Tanks		m3
BOTTOMU								Hole Volume		m3
BOLLOWH			Min ID	Connection		Ca (ppm)		System Vol.		m3
1 1	liem	IVIAX OD	IVIIN ID	Connection	Size & Type	-				
2						Mud Co				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB		Its DP Racks		DC Conn:	XXX	muu op e				
					vvv		м <sup>3</sup>	-		
Jts DP in hole:		DP on Loc:		DP Conn:	~~~	VOLUMES	IVI			
DRILLING	OPERATIONS TIM		JOWN		1	Water added		Mud Daily Cost		
RU/TO		Survey		Move Rig		Losses	TDO	Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	IROL	SOLIDS CO	NIROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	IN/A	Shaker Make		
Reaming		Cementing		WO Services		ST/Min	NI/A	Snaker Mesh	Desilter	IN/A
Cond / Circ				Mix mud		MACP(KPa)		Vol LIE (I/min)	N/A	NI/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:	1	(to 24:00)
			oct 7 2011	1	1	(0000 hro (	2400 hra)			(10 = 110 0)
Erom		Duration	0017,2011			(0000 ms - 2	vent			
0700	0700	24hr	Safety mee	ting with crew	and on site	supervisior d	liscussed n	inch points an	d aood com	munication
0100	0,00	2	Drill NQ roc	ds from 43m to	o 73m	ouporviolor, u	loodooda p		a good com	
			Drill NW ca	sing currently	at 73m					
			Drill NQ roo	ds from 73m to	o 103m at 07	700 hrs				
			At 103m sti	II in overburde	en					
24 HOUR F	orcast :									
24 HOUR F	Forcast : drill to find bedroc	k, set casin	g and cemer	nt.						

Flat bay	Test Hole #4					REPORT #:	16	DATE:	Oct	8th.2011
DEPTH 24:00:	103r	n	PROGRESS	115	510c	Last 24 Hr Rota	ating Time:		Ave ROP:	,
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	RMANCE				DRILLIN	g fluid		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)		MI		
Fulled Fol ?								Mud Cyclo		min
m/hr						Df/Mf		Bottoms LIn		min
Cum Hrs						MBT		Tanks		m3
ounnie	Į					CI (ppm)		Hole Volume		m3
воттомн	OLE ASSEMBLY	(	1	1		Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	ea (pp)				
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIONS T	ME BREAK	DOWN	1		Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR	THE DATE :	Oct8th,201	1		(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24hr	Safety mee	ting with crew	and onsite	supervisiors to	o discuss p	roper PPE.		
			Drill NQ roo	ds from 103m	to 109m					
			Pull out of	nole to change		auro franc 00m	to 100m			
			Drill NO ro	de from 109m	$\frac{1010}{1010}$ , ream $\frac{1010}{100}$	JWN IIOM 83M	10 10311			
				us norr 109m	m to 115m t	o set casing a	ind cement			
			Drill NW ca	SILICI IICHEE EUM		o sor ousing a				
			Drill NW ca	Ising nom 109						
			Drill NW ca	Ising non 109						
			Drill NW ca							
			Drill NW ca							
			Drill NW ca							
			Drill NW ca							
			Drill NW ca							
			Drill NW ca							
			Drill NW ca							
			Drill NW ca							
			Drill NW ca							
			Drill NW ca							
24 HOUR F	Forcast :		a and compared							

Flat bay	Test Hole #4					REPORT #:	16	DATE:	Oct	9th.2011
DEPTH 24:00:	103	m	PROGRESS	: 11	5m	Last 24 Hr Rotat	ting Time:		Ave ROP:	
OPER 09:00:					-	FOREMAN: H.HY	NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFO	RMANCE				DRILLING	FLUID		PUMPS	5
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						pH		Drillpipe AV		m/min
WOB (daN)						VVL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition Pulled For?						Salids (%)		м		
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
	I					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBL	(				Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type				-1	
1										
2						Mud Co.				
3						Mud Man		5 bags portland	ł	
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	***		3	_		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M			
DRILLING	OPERATIONS T	IME BREAK	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CONT	ROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		_N/A
Reaming		Cementing		WO Services		ST/Min	NI/A	Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting			IN/A		Desilter N/A	Centrifuge NI/A
Cond / Circ		NU BOP'S		Install Wollbood		Calc Hole Fill	NI/A		N/A	N/A N/A
Lubricato Big				Install Weinlead			IN/A	O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
			Oct0th 201	1		(0000 hrs. 2	400 hra)	201011101		(10 2 1100)
Z4 HOUR 3		Duration	Octatil,201	I		(0000 mis - 2	400 ms)			
0700	0700	24hr	saftety me	eting prior to c	ementing wit	h crew and on	site super	visor prior to		
			cement cas	sing at 115m c	ement job w	ent good pum	ped down	85 L of 1850K	GM3 cemen	nt
			wait on cer	nent for 8hr ru	in in hole froi	m 0m to 111m	taged cer	nent		
			drilled out	cement from 1	11m to 115n	n				
			pressured	test to 500 ps	i good test					
			drill nq rod	s from 115m to	o 120m					
24 110115										
uni aneaŭ										

Flat bay	Test Hole #4					REPORT #:	17	DATE:	Oct	10,2011
DEPTH 24:00:	120	m	PROGRESS	: 18	4m	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:			1			FOREMAN: H.H)	(NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFO	RMANCE				DRILLIN	g fluid		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)		M		
Motors								Mud Cyclo		min
m/br						Df/Mf		Bottoms Lin		min
Cum Hrs						MBT		Tanks		m3
ounning						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBL	Y	1	1		Ca (ppm)		System Vol		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	ea (pp)				
1										
2				1		Mud Co.				
3						Mud Man		5 bags portland	1	
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIONS T	IME BREAK	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR	THE DATE :	Oct 10,201	1		(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24hr	Safety mee	eting with crew	and on site	supervisiors,	discussed	driving to and	from work si	te
			Drill NQ roo	tor hole in 14	to 148m	rilling in granit				
			Dull out of l			nning in granit	e nise.			
			Cement ho	lole ITOITI 140	face					
			Rig out rig	and demob to	next location	n				
			Test hole #	8	noxt loodilo					
				-						
24 HOUR F	orcast :									
Cement, rig	out rig and mov	e to hole #8								
	-									

Flat bay	Test Hole #8					REPORT #:	18	DATE:	Oct	11th,2011
DEPTH 24:00:	0m		PROGRESS	: 9	m	Last 24 Hr Rota	ating Time:	-1	Ave ROP:	
OPER 09:00:						FOREMAN: H.H.	/NES		MOBILE NO .: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	RMANCE				DRILLIN	g fluid		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рн M/L (asia)		Drillpipe AV		m/min
WOB (dain)						VVL (CCS)		Drilicollar AV		m/min
Condition						Filler Cake		Nozzie vei		m/sec
Pulled For?						Solids (%)		м	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						мвт		Tanks		m3
	1					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY	,				Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type			30 bags of po	ortland	
1										
2						Mud Co.				
3					1	Mud Man		3		
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX	-	2	_		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M			
DRILLING	OPERATIONS TI	ME BREAK	DOWN		1	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		_N/A
Reaming		Cementing		WO Services		ST/Min	N1/A	Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	NI/A		IN/A	N/A
Tripping		Test BOPs		Install wellhead		Act Hole Fill	IN/A	O.F. (kg/m3)	N/A	N/A N/A
Repair Rig		DINI OUL CINL				Calc Hole Fill		Hours/Davs	N/A	N/A
Fishing		Hodie Tools		Total Hrs		Act Hole Fill		Boiler Hrs:	14/7	(to 24:00)
			0-+11.001	Totarris			) 400 h m )	Boller 113.		(10 24:00)
24 HOUR S		HE DATE :	Oct11,201	1		(0000 nrs - 2	2400 nrs)			
0700	0700	24hr	Safety mee	ating with crew	, and on site		discussed	ninched noints	prior to rig	move
0700	0100	2-111	Continue to	o move ria to r	new location	50per 101010,	alocuoocu	pinoned points	phor to fig i	lilove
			Rig up on r	new location						
			Set up pum	np shack, strin	g out hose, e	etc.				
			Drill NQ roo	ds from 0m to	9m.					
			-							
24 HOUR F	orcast :									
Drill overbu	rden.									
1										

Flat bay	Test Hole #8					REPORT #:	19	DATE:	Oct	12th.2011
DEPTH 24:00:	9m		PROGRESS:	. 46	Sm	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H.	/NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		clear	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		1c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
			•							
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	5
Bit No.	_				1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		MI	JD & CHEM	
Meters						Oil (%)		Mud Cycle		min
m/hr						Pt/Mt		Bottoms Up		min
Cum Hrs						MB I		l anks		m3 m2
BOTTOMU										
			Min ID	Connection	Sizo & Typo	Ca (ppm)		System Vol.		m3
1	item	IVIAX OD		Connection	Size & Type	-				
2						Mud Co				
3						Mud Co. Mud Man		3		
BHA Length:		Hook Load:		DP size	XXX	Mud Lin @		5		
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
					VVV		м <sup>3</sup>			
Jts DP in hole:		DP on Loc:		DP Conn:	~~~	VOLUNIES	141			
DRILLING	OPERATIONS TI				1	Water added		Mud Daily Cost		
RU/TO		Survey		Move Rig						
Drill w/ fluid		Logging		Fishing				SOLIDS CO	NIROL	NI/A
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		
Reaming Rm Ratholo		woo		Sofoty Monting			N/A	Shaker wesh	Desilter	Contrifugo
Cond / Circ				Mix mud				Vol LIE (I/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	$U \in (kg/m3)$	N/A	N/A
Lubricate Rig		Drill Out Cmt		initial fromford		Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
			Oct12 2011	1	1	(0000 brs (	2400 brc)			(10 2
Erom		Duration				(0000 ms - 2	vent			
0700	0700	24hr	Safety mee	ting with crew	discussed	working tight l	hole and re	aming		
0.00	0100	2	Drilled over	rburden with N	Q rods from	9m to 33m		Jannig		
			Drilled NW	casing from 9	m to 33m					
			Drill NQ roo	ds from 33m to	o 46m					
			Very tight ir	ntervals from 4	40m to 46m	with clay sean	ns and peb	bles of glacial	Till	
			Begin ream	ning with NW o	casing from 3	33m				
			Pooh with N	NW casing an	d change bit	, very tight, v	worked cas	ing from 33m	to 42m,	
			,							
			Mechanica	problem with	h rig, ( transr	nission failure	e)			
			Unable to c	arill ahead at t	nis time, wai	on replacem	ent parts			
-										
24 HOUR F	orcast :									
Wait on Loo	an to install new t	ransmission								
	,									

Flat bay	Test Hole #8					REPORT #	20	DATE	Oct	13th.2011
DEPTH 24:00:	33m		PROGRESS:	67	7m	Last 24 Hr Rot	ating Time:	DATE.	Ave ROP:	1041,2011
OPER 09:00:			110011200			FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		sunny	TOOLPUSH:	
CUM COST:			RIG / RIG #			TEMP ·		12c		
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
			•							
	BIT PERFOR	MANCE				DRILLIN	G FLUID		PUMPS	;
Bit No.	_	_			1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		INI I O I		
m/br						OII (%) Df/Mf		Mud Cycle		min
								Bottoms Up		m3
Cullinis						CL (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY			1		Ca (ppm)		System Vol		m3
No	Item	Max OD	Min ID	Connection 9	Size & Type	Ca (ppin)		System vol.		115
1	itoini	Max OD				-				
2						Mud Co.				
3						Mud Man		3		
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Its DP in hole.		DP on Loc:		DP Conn:	xxx	VOLUMES	M <sup>3</sup>			
						Water added		Mud Daily Cost		
RU/TO	OPERATIONS TI			Move Rig		Water added		Mud Daily Cost Mud Cum Cost		
RU / TO		VIE BREAKI Survey Logging		Move Rig Fishing		Water added Losses WELL CON	TROL	Mud Daily Cost Mud Cum Cost	NTROL	
RU / TO Drill w/ fluid Drill w/ air		VIE BREAKI Survey Logging Run Casing		Move Rig Fishing WO Materials		Water added Losses WELL CON RSPP	ITROL N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make	NTROL	N/A
RU / TO Drill w/ fluid Drill w/ air Reaming		VE BREAKI Survey Logging Run Casing Cementing		Move Rig Fishing WO Materials WO Services		Water added Losses WELL CON RSPP ST/Min	I <b>TROL</b> N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	NTROL	_N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole		VE BREAKI Survey Logging Run Casing Cementing WOC		Move Rig Fishing WO Materials WO Services Safety Meeting		Water added Losses WELL CON RSPP ST/Min MACP(kPa)	I <b>TROL</b> N/A N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh	Desilter	_N/A N/A Centrifuge
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ		VE BREAK Survey Logging Run Casing Cementing WOC NU BOP's		Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill	N/A	Mud Daily Cost Mud Cum Cost SOLIDS CO Shaker Make Shaker Mesh Vol UF (I/min)	Desilter N/A	N/A N/A Centrifuge N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping		VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs		Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill	ITROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3)	Desilter N/A N/A	N/A N/A Centrifuge N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig		Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt		Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill:	TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3)	Desilter N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig		VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST		Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill	TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SolLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing		VE BREAK Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools		Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill	TROL N/A N/A N/A	Mud Daily Cost Mud Cum Cost SolLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S	SUMMARY FOR T	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE :	Oct13,2011	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs		Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill Act Hole Fill (0000 hrs - 2)	TROL N/A N/A N/A 2400 hrs)	Mud Daily Cost Mud Cum Cost SoLIDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From	SUMMARY FOR T	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration	Oct13,2011	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs		Water added 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 -	TROL N/A N/A N/A 2400 hrs) Event	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A	N/A N/A Centrifuge N/A N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	Survey Logging Run Casing Cementing WOC NU BOP's Test BOP's Drill Out Cmt DST Hndle Tools HE DATE : Duration 24hr	Oct13,2011 Safety mee	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs	/, discussed	Water added 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 - Einstalling new	TROL N/A N/A N/A 2400 hrs) Event r transmissi	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs	r, discussed	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - Einstalling new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3	r, discussed IQ rods from I3m to 58m	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - Einstalling new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently d	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 38 ts from 58m to	v, discussed VQ rods from 33m to 58m 567m 55 down to 66	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Curn Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HID Out Cmt DST HID DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently dr	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3 ds from 58m to rilling NW rod	y, discussed JQ rods from 33m to 58m 567m s down to 66	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Act Hole Fill (0000 hrs - ) E installing new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Curn Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HEDATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Install Wellhead Total Hrs ting with crew burden with N casing from 3 s from 58m te rilling NW rod	r, discussed IQ rods from 3m to 58m 567m s down to 66	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HEDATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently dr Hit bedrock	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Install Wellhead Total Hrs ting with crew burden with N casing from 3 ds from 58m te rilling NW rod	r, discussed JQ rods from 33m to 58m 567m s down to 66	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (I/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HE DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3 s from 58m te rilling NW rod	r, discussed IQ rods from 3m to 58m 567m s down to 66 s down to 66	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T To 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HE DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently dr Hit bedrock	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3 s from 58m te rilling NW rod	r, discussed JQ rods from 3m to 58m 567m s down to 66 ed into bedro	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HEDATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Install Wellhead Total Hrs ting with crew burden with N casing from 3 s from 58m te rilling NW rod	r, discussed JQ rods from 3m to 58m 567m s down to 66 ad into bedro	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00) er tools
RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HEDATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently dr Hit bedrock Mechanical Unable to d	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Install Wellhead Total Hrs ting with crew burden with N casing from 3 ds from 58m te rilling NW rod	r, discussed JQ rods from 3m to 58m 567m s down to 66 ed into bedro h rig, ( transr his time, wai	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m im, to cement ck 8m	TROL N/A N/A N/A 2400 hrs) vent transmissi casing	Mud Daily Cost Mud Cum Cost Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs:	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HEDATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock Mechanical Unable to d	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Install Wellhead Total Hrs ting with crew burden with N casing from 3 as from 58m te rilling NW rod at 58m, drille problem with Irill ahead at t	r, discussed JQ rods from 3m to 58m 567m s down to 66 ed into bedro h rig, ( transr his time, wai	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m im, to cement ck 8m	TROL N/A N/A N/A 2400 hrs) vent transmissi casing casing	Mud Daily Cost Mud Cum Cost SolIDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs: on, pinch poin	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ fluid Urill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HID OUT Cmt DST HID OUT Cmt DST HID OUT Cmt DST UNITION 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock Mechanical Unable to d	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 58m te rilling NW rod at 58m, drille problem with Irill ahead at t	r, discussed IQ rods from 3m to 58m 567m s down to 66 ed into bedro h rig, ( transr his time, wai	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Act Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m im, to cement ck 8m	ITROL N/A N/A N/A 2400 hrs) Event transmissi casing casing	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs: on, pinch poin	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ fluid Urill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HID OUT Cmt DST HID OUT Cmt DST HID OUT Cmt DST HID OUT Cmt DST UUT CONS VIENTION	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock Mechanical Unable to d	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3 Is from 58m te rilling NW rod	r, discussed IQ rods from 3m to 58m 567m s down to 66 ed into bedro ed into bedro h rig, ( transr his time, wai	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Lst BOP Drill: Calc Hole Fill Act Hole Fill (0000 hrs - : E installing new 33m to 58m im, to cement ck 8m	TROL N/A N/A N/A 2400 hrs) vent transmissi casing casing	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Uol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs: on, pinch poin	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST HID OUT Cmt DST HID OUT Cmt DST HID OUT Cmt DST HID OUT Cmt DST UUT CONS VIENTION	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3 Is from 58m to rilling NW rod at 58m, drille	r, discussed IQ rods from 3m to 58m 567m s down to 66 ed into bedro h rig, ( transr his time, wai	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - ) E installing new 33m to 58m im, to cement installing new as to 58m	TROL N/A N/A N/A 2400 hrs) vent transmissi casing	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs: on, pinch poin	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00)
RU / TO Drill w/ fluid Drill w/ fluid Urill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hendle Tools HE DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3 s from 58m tu rilling NW rod	r, discussed IQ rods from 3m to 58m 567m s down to 66 ed into bedro h rig, ( transr his time, wai	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - 2 E installing new 33m to 58m 5m, to cement ck 8m	ITROL N/A N/A N/A 2400 hrs) Event transmissi casing casing	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Uol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs: on, pinch poin	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00) Pr tools
RU/TO Drill w/ fluid Drill w/ fluid Urill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T 0700	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hrndle Tools HE DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock Mechanical Unable to d	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3 Is from 58m tu rilling NW rod	r, discussed IQ rods from 3m to 58m 567m s down to 66 ed into bedro h rig, ( transr his time, wai	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - : E installing new 33m to 58m im, to cement ck 8m	ITROL N/A N/A N/A 2400 hrs) vent transmissi casing casing	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) Hours/Days Boiler Hrs: On, pinch poin	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00) Pr tools
RU / TO Drill w/ fluid Drill w/ fluid Drill w/ air Reaming Rm Rathole Cond / Circ Tripping Lubricate Rig Repair Rig Fishing 24 HOUR S From 0700	SUMMARY FOR T To 0700 	VE BREAKI Survey Logging Run Casing Cementing WOC NU BOP's Test BOPs Drill Out Cmt DST Hndle Tools HE DATE : Duration 24hr	Oct13,2011 Safety mee Drilled over Drilled over Drilled NW Drill NQ roc Currently di Hit bedrock Mechanical Unable to di	Move Rig Fishing WO Materials WO Services Safety Meeting Mix mud Install Wellhead Total Hrs ting with crew burden with N casing from 3 Is from 58m tu rilling NW rod at 58m, drille	r, discussed IQ rods from 3m to 58m 567m s down to 66 ed into bedro h rig, ( transr his time, wai	Water added Losses WELL CON RSPP ST/Min MACP(kPa) Calc Hole Fill Calc Hole Fill Calc Hole Fill Calc Hole Fill (0000 hrs - : Einstalling new 33m to 58m im, to cement ck 8m	ITROL N/A N/A N/A 2400 hrs) vent transmissi casing	Mud Daily Cost Mud Cum Cost SoliDS CO Shaker Make Shaker Mesh Vol UF (l/min) U.F. (kg/m3) O.F. (kg/m3) Hours/Days Boiler Hrs: On, pinch poin	NTROL Desilter N/A N/A N/A ts and prope	N/A N/A Centrifuge N/A N/A N/A (to 24:00) Pr tools

Flat bay	Test Hole #8					REPORT #:	21	DATE:	Oct	14th.2011
DEPTH 24:00:	66m		PROGRESS:	14	8m	Last 24 Hr Rot	ating Time:		Ave ROP:	,
OPER 09:00:					-	FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		rain	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		12c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	rc	ough		
			•			1				
	BIT PERFOR	MANCE				DRILLIN	G FLUID		PUMPS	5
Bit No.					1.00 °	Time		Pump No.		-
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		М	JD & CHEN	IICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
						CI (ppm)		Hole Volume		m3
BOTTOMH						Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type			3 bags of po	rtland	
1		-	-			- L				
2		-	-			Mud Co.				
3					VVV	Mud Man				
BHA Length:		Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	^^^		3	-		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M			
DRILLING	OPERATIONS TI	ME BREAK	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh	-	N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct14,2011			(0000 hrs -	2400 hrs)			
From	То	Duration				E	ivent			
0700	0700	24hr	Safety mee	ting with crew	, discussed	pressure test	ing			
			cement job	went good, v	vait on ceme	ent prior to dril	I out for 8hr	S		
			run in noie,	tagged ceme	nt at 62m					
			Drilled cem	ent from 62m	iu b/m si for 10 min	e good toot				
			drill NO rod	si up io 300 p s from 67m to	115m	is, good lesi				
			Currently d	rilling abead fi	rom 145m					
				ning aricaa n						
24 HOUR F	orcast :									
Drill ahead,	recover core, and	wax core.								

Flat bay	Test Hole #8					REPORT #:	22	DATE:	Oct	15th.2011
DEPTH 24:00:	148m	ו	PROGRESS:	20	8m	Last 24 Hr Rot	ating Time:		Ave ROP:	,
OPER 09:00:					-	FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		rain	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	rc	ough		
						1				
	BIT PERFOR	MANCE				DRILLIN	G FLUID		PUMPS	5
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	JD & CHEN	IICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
DOTTOMU						CI (ppm)		Hole Volume		m3
BOLLOWH				Common etian (		Ca (ppm)		System Vol.		m3
NO.	Item	Max OD	IVIIN ID	Connection :	Size & Type	_				
1										
2		1				Wud Man				
J BHA Longthi		Hook Loodi		DD eize	XXX	wud Up @				
Avail WOB:		Its DP Racks		DP Size		widd Op @				
Avan WOD.		Sta Di Racka		De comi			3			
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M			
DRILLING	OPERATIONS TI	ME BREAKI	DOWN	1	1	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		_N/A
Reaming		Cementing		WO Services		ST/Min	N1/A	Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	N1/A		N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig						Lst BOP Drill:		U.F. (kg/m3) Hours/Dave	N/A N/Δ	N/A N/A
Repair Rig				Tatalila				Roilor Hrs:	IN/A	(to 24:00)
Fishing		Hindle Tools		Total Hrs		Act Hole Fill		Doller 1115.		(10 24.00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct15,2011			(0000 hrs -	2400 hrs)			
From	10	Duration	O o f o h u m o o	4		<b>E</b>	vent			
0700	0700	24nr	Safety mee	ting with crew	, discussed	good nand pi	acement			
			Still in anby	drate at 202~						
			Due to gove	ernment regul	ations not a	ble to drill ab	ead			
			Due le gert	Shiniontroga			544			
24 HOUR 5	l									
Z4 HOUK F		h ria to flot L	ov toot hale	#5						
itig out fig,	cap casing, derno	o ng to liat D	ay lest noie	πJ						

Flat bay	Test Hole #5					REPORT #:	22	DATE:	Oct	16th,2011
DEPTH 24:00:			PROGRESS:	15.	0 m	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.HY	/NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		rain	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
				u						
	BIT PERFOR	RMANCE			4 00 %		g fluid		PUMPS	6
Bit No.					1.00 *	lime		Pump No.		
Size (mm)						Depth(m)		Madal		
Type						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		IVI Mud Cuele		min
m/br						Off (%)		Bottoms Lin		min
Cum Hrs						MBT		Tanks		m3
	1					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY	,		1		Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size		Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	^^^		3	_		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M			
DRILLING	OPERATIONS TI	ME BREAK	DOWN		1	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		
Reaming Rm Rathole		VOC		Safety Meeting			N/A	Shaker Mesh	Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	14/7	Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR T	THE DATE :	Oct16,2011			(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24hr	Safety mee	ting with crew	, discussed	rig move and	overhead l	ines		
			continue rig	g out rig float r	nove and eq	uipment to ne	w lacation			
			skid drill w	ith tractor and	equipment t	o set up				
			supply pum	ip and string c	out water hos	6. 15m				
						5 1511				
-										
			currently dr	illing ahead@	25m					
			_							
-			-							
24 HOUR F	orcast :									
drill ahead										

Flat bay	Test Hole #5					REPORT #:	22	DATE:	Oct	17th,2011
DEPTH 24:00:	15m		PROGRESS:	61	1m	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	/NES		MOBILE NO .: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		rain	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough	<u> </u>	1
				1		1		T		
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	i
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Type Soriol #								Liner X Stk		
Serial #										
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						pH		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY		•			Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	_				
1			-					-		
2						Mud Co.		4 14000		
		l la alc l a a di		DD size	~~~	Mud Man		1 pail 1200	)	
Avail WOR:		HOOK LOAD:		DP size	×××	widd Op @				
							м <sup>3</sup>			
Jts DP in hole:		DP on Loc:		DP Conn:	***	VOLUMES	IVI			
DRILLING	OPERATIONS TIL		DOWN			Water added		Mud Daily Cost		
RU/TO		Survey		Move Rig						
Drill w/ fluid		Logging		Fishing				SOLIDS CO	NIROL	NI/A
Drill w/ air		Run Casing		WO Materials		RSPP	IN/A	Shaker Make		_N/A
Reaming Rm Rathole		woo		Safety Meeting			N/A	Shaker Mesh	- Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	1.0/7.	Vol UF (I/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:	<u></u>	(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct17,2011	·		(0000 hrs - 2	2400 hrs)			
From	То	Duration	00000,2011			E	vent			
0700	0700	24hr	Safety mee	ting with crew	, discussed	pinch points				
			drill overbui	rden nw casin	ng from 15m	to 30m				
			move pump	shack to nev	w water hole					
			pooh chang	ge shoe bit						
			ream casing	g from 22m to	30m					
			drill overbui	rden nw casin	ng from 30 to	61m				
			-							
			ourroptly dr	illing aboad@	74m					
			currently ur	ining aneaue	7411					
			-							
24 HOUR F	orcast :									
unii anead i	noverburaen									

Flat bay	Test Hole #5					REPORT #:	23	DATE:	Oct	18th.2011
DEPTH 24:00:	15m		PROGRESS	61	lm	Last 24 Hr Rot	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		good	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		12c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	ro	ough		
	BIT PERFOR	MANCE				DRILLIN	G FLUID		PUMPS	3
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (dan)						VVL (CC'S)		Drillcollar AV		m/min
RPM Condition						Filter Cake		Nozzie vei		m/sec
Condition Pulled For2						Salide (%)		м		
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
	1					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY			11		Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					-
1					<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
2						Mud Co.				
3						Mud Man		3 pail 1200		
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIONS TI	ME BREAK	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct18,2011			(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24hr	Safety mee	ting with crew	, discussed	driving to and	I from locati	on.		
			Drill overbu	irden nw casir	from 79m to	to 78m				
			Peam pw c	asing from 78	m to 82m	02111				
			Realiting C	asing non 70	01110 02111					
-										
			-							
24 HOUR F	orcast :									
drill ahead in	n overburden									

Flat bay	Test Hole #5					REPORT #	23	DATE	Oct	19th 2011
DEPTH 24:00	61r	m	PROGRESS	. 82	2m	Last 24 Hr Rotat	ing Time:	DATE.		1011,2011
OPER 09:00:	011		TROOREOG	. 01		FOREMAN: H HY	NES			30-667-8775
DAILY COST:			HOLE CND ·			WEATHER:	120	boo	TOOL PLISH:	
CUM COST:								12c		
EORMATION:			KB ELEV:			ROADS:	r	ouah	T.F. WOBILE.	
TORMATION.			R.D. ELLV.			NOADS.		ougn		
		DMANCE		1					DUMDE	
DYN	BII PERFU	RMANCE	1		1 00 %				PUMPS	
Bit No.					1.00 *	lime		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
l ype						Mud Grad		Liner X Stk		
Serial #						VIS		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		IVI	UD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
						CI (ppm)		Hole Volume		m3
BOLLOWH	IOLE ASSEMBL	Y			· · · · · ·	Ca (ppm)		System Vol.		m3
NO.	Item	Max OD	Min ID	Connection	Size & Type	_				
1										
2						Mud Co.				
J DI IA L sa sthu	l	l la alc l a a di			VVV	Mud Up @				
BHA Length:		HOOK LOAD:		DP size	×××	Mud Op @				
Avair WOB.		JIS DF RACKS		DC Conn.			3	-		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	М			
DRILLING	OPERATIONS T	IME BREAK	DOWN	<b>1</b>	1	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CONT	ROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR	THE DATE :	Oct19,201	1		(0000 hrs - 2	400 hrs)			
From	То	Duration				Ev	vent			
0700	0700	24hr	Safety mee	eting with crew	, discussed	muddy locatior	າ.			
			Currently h	ole is drilled to	o 82m					
			Problems of	occurred with r	notor, waitin	g on parts				
			1 100101110		1001					
			Eqipment	vent down at (	0400 nrs on t	he 19th				
			Eqipment	vent down at (	0400 nrs on t	he 19th				
			Eqipment	vent down at (	0400 nrs on t	he 19th				
			Eqipment	vent down at (	J400 nrs on t	he 19th				
				vent down at (	J400 nrs on t	he 19th				
				vent down at 0		he 19th				
			Eqipment v	vent down at ( vaiting on mec	hanic or new	he 19th				
			Eqipment v	vent down at (	hanic or new	he 19th / parts				
			Eqipment v	vent down at (	hanic or new	he 19th / parts				
			Eqipment v	vent down at (	hanic or new	he 19th / parts				
			Eqipment v	vent down at (	hanic or new	he 19th				
			Eqipment v	vent down at (	hanic or new	he 19th				
			Eqipment v	vent down at (	hanic or new	/ parts				
			Eqipment v	vaiting on mec	hanic or new	/ parts				
24 HOUR F			Eqipment v	vaiting on mec	hanic or new	v parts				
24 HOUR F	Forcast :		Currently v	vaiting on mec	hanic or new	/ parts				

Flat bay	Test Hole #5					REPORT #:	24	DATE:	Oct	20th,2011
DEPTH 24:00:	61m		PROGRESS:	82	2m	Last 24 Hr Rota	ating Time:	1	Ave ROP:	
OPER 09:00:						FOREMAN: H.H)	/NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		good	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		12c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	;
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						pH		Drillpipe AV		m/min
WOB (daN)						VVL (CC'S)		Drillcollar AV		m/min
RPM Condition						Filter Cake		Nozzie vei		m/sec
Pulled For?						Solids (%)		м	ID & CHEM	
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						мвт		Tanks		m3
	1					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY					Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	,		-		
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX		2	_		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M°			
DRILLING	OPERATIONS TI	ME BREAKI	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh	_	N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	N1/A	Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig								Roilor Hro	N/A	IN/A
Fishing	-	Hndle I ools		I otal Hrs		Act Hole Fill		Boller HIS:		(to 24:00)
24 HOUR S	SUMMARY FOR T	HE DATE :	Oct 20,201	1		(0000 hrs - 2	2400 hrs)			
From	10	Duration			0006 - 4- 6-	E	vent			
0700	0700	2401	mechanic	is arriving at 1	900111011X	problem				
-										
			Currently w	aiting on mec	hanic or nev	v parts				
			_							
-										
24 HOUR F	orcast :									
waiting on r	repacement parts									
Ŭ										

Flat bay	Test Hole #5					REPORT #:	25	DATE:	Oct	21th,2011
DEPTH 24:00:	61m		PROGRESS	82	2m	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.HY	'NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		good	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		120	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
				10				10		
Dit Ma	BIT PERFOR	MANCE			1.00.9		G FLUID		PUMPS	)
Bit NO. Sizo (mm)					1.00	Time Dopth(m)		Pump No.		
Mfa						Depiii(iii) Density		Model		
Type						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		IVI Mud Cuolo		min
m/br						Off (%) Pf/Mf		Bottoms Lin		min
Cum Hrs						MBT		Tanks		m3
ouintillo	ļ					CI (ppm)		Hole Volume		m3
воттомн	OLE ASSEMBLY	1				Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					-
1										
2						Mud Co.				
3					1	Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX		3	_		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M			
DRILLING	OPERATIONS TI	ME BREAKI	DOWN	-		Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		_N/A
Reaming		Cementing		WO Services		ST/Min	N1/A	Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	IN/A	Vol UE (I/min)	Desilter N/A	Centrifuge NI/A
Cond / Circ				Install Wallhood		Calc Hole Fill	N/A	VOI OF (I/MIN)	N/A	N/A N/A
Lubricate Rig		Drill Out Cmt		matan wennead		L st BOP Drill	14/7	O = (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR T		Oct 21 201	1		(0000 hrs - 2	2400 hrs)	3		
From	То	Duration	00021,201	1		E	vent			
0700	0700	24hr	Going to ch	ange motor d	ue to warren	ty issues				
						•				
			-							
			Currently w	aiting on new	motor to arr	ive to install				
				aning on non						
		-								
24 HOUR F	Forcast :									

Flat bay	Test Hole #5					REPORT #:	26	DATE:	Oct	22th.2011
DEPTH 24:00:	61m	า	PROGRESS:	82	2m	Last 24 Hr Rot	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		good	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		12c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFO	RMANCE				DRILLIN	G FLUID		PUMPS	5
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?								IVI Mud Quala		
m/br						OII (%) Df/Mf		Nua Cycle		min
Cum Hrs						MBT		Tanks		m3
Cullinis	1					Cl (ppm)		Hole Volume		m3
воттомн	OLE ASSEMBLY	/		JI		Ca (ppm)		System Vol		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	ou (ppiii)		Cystem vol.		ino
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:	•	DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIONS T	ME BREAK	DOWN	1		Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR	THE DATE :	Oct 22,201	1		(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	Event			
0700	0700	24hr	Going to ch	ange motor d	ue to warren	ity issues				
			_							
-			Currently w	aiting on new	motor to arr	ive to install				
24 HOUR F	orcast :									
waiting on r	eplacement parts	i								
1										

Flat bay	Test Hole #5					REPORT #:	27	DATE:	Oct	23th,2011
DEPTH 24:00:	82m		PROGRESS:	91	lm	Last 24 Hr Rota	ating Time:	1	Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		good	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		10c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	ro	ough		
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		MI	JD & CHEM	
Meters						OII (%)		Mud Cycle		min
m/nr								Bottoms Up		min
Cum Hrs								Tanks		m3 m2
BOTTOMU						Cr (ppin)				m2
No			Min ID	Connection	Size & Type	Ca (ppm)		System vol.		ma
1	item			Connection	Size & Type	-				
2						Mud Co				
3						Mud Oo. Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
				22.0	vvv		м <sup>3</sup>	-		
Jts DP in hole:				DP Conn:	~~~	VOLUMES				
DRILLING	OPERATIONS TH		DOWN			Water added		Mud Daily Cost		
RU/10		Survey		Move Rig						
Drill w/ fluid		Logging		Fishing				SOLIDS CO	NIROL	NI/A
Drill w/ air		Run Casing		WO Materials		RSPP	IN/A	Shaker Make		
Reaming Rm Rotholo		woo		Sofety Monting			NI/A	Shaker Wesh	Dosiltor	Contrifugo
				Mix mud				Vol LIE (I/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	$U \in (kg/m3)$	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:	1	(to 24:00)
			Oct 22 201	1	1	(0000 hra (	2400 bro)	1		(10 = 1100)
Erom		Duration	00123,201	I		(0000 ms - 2	2400 1115)			
0700	0700	24hr	safety meet	ting with crew	and on site		discussed th	he safety of on	erating mac	hinery
0100	0.00	2	Drill overbu	urden from 82	m to 91m				orating mae	liniory
			Pull out of h	nole, change o	out shoe bit					
			Currently t	ripping to cha	nge out shoe	e bit, run back	in and drill			
-			_							
	iorcast ·									
24 HOUR F	Forcast :									

Flat bay	Test Hole #5					REPORT #:	28	DATE:	Oct	24th,2011
DEPTH 24:00:	91n	n	PROGRESS	: 11	8m	Last 24 Hr Rota	iting Time:		Ave ROP:	,
OPER 09:00:			1			FOREMAN: H.HY	'NES		MOBILE NO .: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		good	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFO	RMANCE				DRILLING	G FLUID		PUMPS	
Bit No.				-	1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)		M		
Pulled Fol ?								Mud Cuolo		min
m/br						Df/Mf		Rottoms Lin		min
Cum Hrs						MBT		Tanks		m3
Guinting	I					CI (ppm)		Hole Volume		m3
воттомн	OLE ASSEMBLY	(		JL		Ca (ppm)		System Vol		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	ou (ppiii)		oyatem vol.		ino
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	xxx	VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIONS T		DOWN	-	1	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR	THE DATE :	Oct 24,201	1		(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24hr	safety mee	ting with crew	and on site	supervisiors d	iscussed t	he safety of dr	iving to and	from location
			Drill overb	urden from 91	m to 99m					
			Pull out of	hole, change o	out shoe bit					
			Ream dow	n from 81m to	91m					
			Drill NV Ca	ds from 102m	to 119m					
			DIIIINQIO							
			-							
			Currently	drilling NW cas	sina down to	118m to set c	asing 9m	of bedrock		
			-							
A 110										
24 HOUR F	Forcast :									

Flat bay	Test Hole #5					REPORT #:	29	DATE:	Oct	25th,2011
DEPTH 24:00:	91m	1	PROGRESS:	11	8m	Last 24 Hr Rot	ating Time:	1	Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		good	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	RMANCE				DRILLIN	g fluid		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)		MI		
Fulled FUL?								Mud Cyclo		min
m/hr						Pf/Mf		Bottoms Lin		min
Cum Hrs						MBT		Tanks		m3
Callin	ļ					CI (ppm)		Hole Volume		m3
воттомн	OLE ASSEMBLY	,	-	11		Ca (ppm)		System Vol.		m3
No.	ltem	Max OD	Min ID	Connection S	Size & Type	eu (ppiii)		eyetem ven		
1										
2						Mud Co.		-		
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX		2	_		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M°			
DRILLING	OPERATIONS TI	ME BREAK	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh	_	N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	N1/A	Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	IN/A	IN/A
Repair Rig		DS1				Calc Hole Fill		Hours/Days	IN/A	IN/A
Fishing		Hndle I ools		Total Hrs		Act Hole Fill		Boller HIS:		(to 24:00)
24 HOUR S	SUMMARY FOR T	HE DATE :	Oct 25,201	1		(0000 hrs - 1	2400 hrs)			
0700	0700	24br	cofoty moo	ting with crow	and on cita		icoussed th	o weather co	aditions	
0700	0700	2411		rilled down to	110m with N	Supervisions (		le weather con		
			9m in bedro	nica admitte		ivi casing				
-			Getting rea	dv to cement	casing and v	vait on cemer	nt			
			Ŭ		Ŭ					
-										
			<b></b>							
04110115										
24 HOUK F	orcast :									
Cement and	wait UII									

Flat bay	Test Hole #5					REPORT #:	30	DATE:	Oct	26th,2011
DEPTH 24:00:	91m	1	PROGRESS:	11	8m	Last 24 Hr Rot	ating Time:		Ave ROP:	,
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		good	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		8c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	ro	ough		
	BIT PERFOR	MANCE				DRILLIN	G FLUID		PUMPS	;
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						pН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)		MI		
Pulled Fol ?								Mud Cyclo		min
m/br						Off (%)		Bottoms Lin		min
Cum Hrs						MBT		Tanks		m3
ounnis	l					CI (ppm)		Hole Volume		m3
воттомн	OLE ASSEMBLY					Ca (ppm)		System Vol		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	ea (ppiii)			4	
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIONS TI	ME BREAK	DOWN		•	Water added		Mud Dailv Cost		
RU / TO		Survey	-	Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	ITROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		woc		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct 26,201	1		(0000 hrs -	2400 hrs)			
From	То	Duration				E	Event			
0700	0700	24hr	safety meet	ting with crew	and on site	supervisiors of	discussed p	inch points		
-			Currently ca	asing is ceme	nted riged up	p deverter pri	or to drilling	out cement		
-			mechanical	problem with	spider gear	on the main of	drive at 220	Ohrs		
			Replaceme	nt part arrive	d at 1630pm	1				
			Should be	istalling new p	a of 2200bro					
			Should be t	up and running	y at 23001115	•				
							·			
					-					
			_							
24 HOUR F	orcast :									
cement and	i wait on									
1										

Flat bay	Test Hole #5					REPORT #	30	DATE	Oct	27th 2011
DEPTH 24:00:	118m	1	PROGRESS	14	8m	Last 24 Hr Rota	ating Time:	DATE.	Ave ROP:	2141,2011
OPER 09:00:		•	110011200			FOREMAN: H.H)	/NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:	-	rain	TOOLPUSH:	
CUM COST:			RIG / RIG #			TEMP ·		8c		
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	MANCE		1		DRILLIN	G FLUID		PUMPS	5
Bit No.	_	_			1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)				
m/br						OII (%) Df/Mf		Mud Cycle		min
								Bottoms Up		m2
Cullinis						CL (ppm)		Hole Volume		m3
BOTTOMH										m3
No	Item	Max OD	Min ID	Connection 9	Size & Type	Ca (ppili)		6 bags of po	rtland	115
1	itom	max ob		Connoction				2 pails of DD 12	200	
2						Mud Co.				
3						Mud Man				
BHA Length:	•	Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Its DP in hole.		DP on Loc:		DP Conn:	xxx	VOLUMES	M <sup>3</sup>			
	OPERATIONS TH		NOWN		1	Water added		Mud Daily Cost		
RU/TO		Survey		Move Rig		Losses		Mud Daily Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make	1	N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct 27,201	1		(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24hr	safety mee	ting with crew	and on site	supervisiors d	liscussed v	vell control wit	n deverter	
			Prior to dril	lout						
			lagged cei	ment at 113m	1.110					
			Drilled cem	ent from 113r	n to 118m	r 10mina taa	+ 1400 0000	4		
				rode from 118	510500 psi it	or romins, les	t was good	1		
			Difficulting							
			Currently d	rilling ahead f	rom 148m		· · · · · · · · · · · · · · · · · · ·			
-										
04110115										
24 HOUR F	orcast :									
Drill anead	and recover core									

Flat bay	Test Hole #5					REPORT #	31	DATE	Oct	28th 2011
DEPTH 24:00:	148m	1	PROGRESS	35	0m	Last 24 Hr Rota	ating Time:	DATE.	Ave ROP:	2011,2011
OPER 09:00:			THE SHEES	. 00		FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		rain	TOOLPUSH:	
CUM COST:			RIG / RIG #			TEMP ·		8c		
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	MANCE		1		DRILLIN	G FLUID		PUMPS	i
Bit No.	_	-			1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)				
m/br						OII (%) Df/Mf		Mud Cycle		min
								Bottoms Up		m2
Cullinis						CL (nnm)		Hole Volume		m3
BOTTOMH										m3
No	Item	Max OD	Min ID	Connection S	Size & Type	Ca (ppiii)		6 hags of po	rtland	115
1	item	Max OD		Connection				2 pails of DD 12	200	
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Its DP in hole:		DP on Loc:		DP Conn:	XXX		M <sup>3</sup>			
				51 001111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Water added		Mud Daily Coat		
BUL/TO	OF LIKATIONS TH			Move Rig				Mud Cum Cost		
Drill w/ fluid				Fiching		WELL CON			NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Materials		ST/Min		Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct 28,201	1		(0000 hrs - 2	2400 hrs)			
From	То	Duration				È	vent			
0700	0700	24hr	safety mee	ting with crew	and on site	supervisiors o	liscussed o	Iriving through	town to loca	ation
			Drill NQ roo	ds from 148m	to 300m					
			Due to gov	ernment regul	lation wait or	orders to con	ntonue to d	rill deeper		
			Drill NQ roo	ds from 300m	to 350m					
			A1 050							
			At 350m st	iii in massive a	annydrate					
			Currently p	reparing to pu	Ill rods and o	ement to surf	ace			
						Smont to Sull				
24 HOUR F	orcast :									
Cement and	d rig out									

Flat bay	Test Hole #5					REPORT #:	32	DATE:	Oct	29th,2011
DEPTH 24:00:			PROGRESS			Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.HY	NES		MOBILE NO .: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		snow	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		20	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
				1				1	DUMDO	
Dit Nie	BIT PERFOR	MANCE			1 00 %		g fluid		PUMPS	
Bit NO. Sizo (mm)					1.00	l ime Dopth(m)		Pump No.		
Mfa						Deptil(III) Density		Model		
Type						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)		M		
Pulled For?								IVIO Mud Cuele		
m/br						Oli (%) Pf/Mf		Bottoms Lin		min
Cum Hrs						мвт		Tanks		m3
o din Tho	ļ					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY			11		Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	,		36 bags of p	ortland	
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	~~~	_	3	-		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	М			
DRILLING	OPERATIONS TI	ME BREAK	DOWN			Water added		Mud Daily Cost		
RU/TO		Survey		Move Rig						
Drill w/ fluid		Logging Dup Cooing		Fishing				SOLIDS CO	NIROL	NI/A
Drill W/ air Reaming		Run Casing		WO Materials		RSPP ST/Min	IN/A	Shaker Mesh		N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill		Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Oct 29,201	1		(0000 hrs - 2	2400 hrs)			
From	То	Duration	_			E	vent			
0700	0700	24hr	safety mee	ting with crew	and on site	supervisiors d	liscussed g	ood communi	cation opera	ting tractor
			Finish cem	ent job, cemer	nted back to	surface				
	-		Rig out rig	to demode to	trance to loa	d on flathed t	o demohe	in the morning		
	-				the am with I	Harvey Gale				
			Move to ne	ext location in t						
			Move to ne	ext location in t						
			Move to ne	ext location in t						
			Move to ne							
			Move to ne							
			Move to ne							
24 HOUR F	Forcast :		Move to ne							

Flat bay	Test Hole #8					REPORT #:	33	DATE:	Oct	30th,2011
DEPTH 24:00:	208m	า	PROGRESS:	21	1m	Last 24 Hr Rota	iting Time:		Ave ROP:	
OPER 09:00:			4			FOREMAN: H.HY	NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		snow	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		2c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		Г
						-10		-		
	BIT PERFOR	MANCE	1			DRILLING	g fluid	_	PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Type Sorial #						Wig		Liner X Stk		
Serial #										
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press		kPa
Hrs on Bit						pH		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	UD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY					Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1						Mud Co				
3						Mud Co. Mud Man				
BHA Length:	•	Hook Load:	•	DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M <sup>3</sup>			
DRILLING	OPERATIONS TI	ME BREAKI	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh	_	N/A
Rm Rathole		WOC		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	NI/A	Vol UF (l/min)	N/A	N/A
Tripping		Test BOPs		Install wellhead		Act Hole Fill	IN/A	O.F. (kg/m3)	N/A	N/A
Lubricate Rig						LSt BOP Drill:		U.F. (kg/m3) Hours/Davs	N/A	N/A N/A
Fiching		Hadle Teels				Act Hole Fill		Boiler Hrs:	IN/A	(to 24:00)
			0.1.00.004				100  )	Doller 113.		(10 24.00)
24 HOUR S		HE DATE :	Oct 30,201	1		(0000 nrs - 2	400 nrs)			
0700	0700	24hr	safety mee	ting with crew	and on site	unanvisiors d	iscussed t	he importance	of moving h	
0700	0700	2411	Demohe ric	to new locati	ion	supervisions u	13003360 1		or moving n	eavy equipment a
			Skid equipr	ment into test	hole #8					
			Ria up equi	ipment to reer	nter test hole	#8 to drill dee	eper			
			Run NQ roo	ds to 208m						
			Drill NQ roo	ds to 211m						
			Currently d	rilling ahead fi	rom 211m					
24 HOUR F	orcast :	2								
		-								
Flat bay	Test Hole #8					REPORT #:	34	DATE:	Oct	31st,2011
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DEPTH 24:00:	211m	l	PROGRESS:	34	9m	Last 24 Hr Rota	ating Time:	1	Ave ROP:	
OPER 09:00:						FOREMAN: H.H.	(NES		MOBILE NO .: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		cold	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		50	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
				II						
DYN	BIT PERFOR				1 00 %		g fluid		PUMPS	;
Bit No.					1.00 *	l ime		Pump No.		
Size (mm)						Deptn(m)		Make		
Type						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?										min
m/br						Off (%)		Bottoms Lin		min
Cum Hrs						мвт		Tanks		m3
o unit no	ļ.					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY			11		Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	,				
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX		3	_		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M°			
DRILLING	OPERATIONS TI	ME BREAK	DOWN		T	Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		_N/A
Reaming		Cementing		WO Services		ST/Min	NI/A	Shaker Mesh	Desilter	N/A
Cond / Circ				Safety Meeting		MACP(KPa)	IN/A	Vol LIE (I/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	$U \in (kg/m3)$	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	SUMMARY FOR T	HE DATE :	Oct 31.201	1		(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24hr	safety meet	ting with crew	and on site	supervisiors d	liscussed	pince points		
			Drill NQ roc	Is from 211m	to 314m					
			conglomera	te came in at	311m					
			Drill NQ roc	is from 311m	to 349m	tachnician				
			Wax 14 Core		HERFURD	lechnician				
									-	
			-							
24 HOUR F	orcast :									
cement and	demobe									

Flat bay	Test Hole #9					REPORT #:	36	DATE:	Nov	1st. 2011
DEPTH 24:00:	Om		PROGRESS	: 28	3m	Last 24 Hr Rota	ating Time:		Ave ROP:	,
OPER 09:00:						FOREMAN: H.HY	'NES		MOBILE NO.: 78	30-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		cold	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		5c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	MANCE				DRILLIN	G FLUID		PUMPS	<u>.</u>
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		MU	JD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MB I		Tanks		m3
DOTTOMU						CI (ppm)		Hole Volume		m3
			Min ID	Connection		Ca (ppm)		System Vol.		m3
1	litern	Max OD		Connection	Size & Type	-				
2						Mud Co		2 pails of DD120	00	
3						Mud Oo. Mud Man		5 bags of cement	t	
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
the DD is hold.					VVV		м <sup>3</sup>			
JIS DP IN NOIE.				DP Conn.	~~~	VOLUNILS				
DRILLING	OPERATIONS TH		JOWN			Water added		Mud Daily Cost		
		Survey		Move Rig						
Drill w/ fluid		Logging		Fishing				SOLIDS CO	NIROL	NI/A
Drill w/ air		Run Casing		WO Materials		RSPP	IN/A	Shaker Make		
Reaming Rm Rotholo		Cementing		Sofoty Monting			Ν/Δ	Shaker wesh	Dosiltor	Contrifugo
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	1.0/7.1	Vol LIE (I/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U = (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
			Nov2 2011			(0000 brc (	2400  brc			
From		Duration	1002,2011			(0000 ms - 2	vent			
0700	0700	24hr	safety mee	ting with crew	and on site	supervisiors d	iscussed	using proper P	PF	
0100	0100	2	Continue to	o skid equipme	ent into new	location	1000000	doing proport		
			Ria up eau	ipment						
			Drill overbu	urden from 0m	to 19m					
			Drilled gyp	sum from 19m	to 22m					
			Drilled Anh	ydrate from 22	2m to 28m					
			Drill NW ca	asing down to :	28m					
			Cement ca	sing at 28m						
			Wait on ce	ment from 190	00 hrs					
24 HOUR F	orcast :									
Wait on cer	nent rig un deved	ter drill out a	ement and	Dressure test						
	non, ng up uoven	ion, ann out t	Sinon anu	51000010 1001						

Flat bay	Test Hole #9					REPORT #:	37	DATE:	Nov	2nd,2011
DEPTH 24:00:	28m		PROGRESS	62	2m	Last 24 Hr Rota	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND .:			WEATHER:		cold	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		5c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	ro	ough		
	BIT PERFOR	MANCE				DRILLIN	g fluid		PUMPS	1
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рн		Drillpipe AV		m/min
WOB (daN)						VVL (CC'S)		Drillcollar AV		m/min
RPM						Fliter Cake		Nozzie vei		m/sec
Condition Pulled For?						Salida (%)		M		
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						MBT		Tanks		m3
	ļ					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY					Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type					
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX		3	-1		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M°			
DRILLING	OPERATIONS TI	ME BREAK	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		_N/A
Reaming		Cementing		WO Services		ST/Min		Shaker Mesh	_	N/A
Rm Rathole		woc		Safety Meeting		MACP(kPa)	N/A		Desilter	Centrifuge
Cond / Circ		NU BOP's		Mix mud		Calc Hole Fill	N1/A	Vol UF (I/min)	IN/A	N/A
Tripping		Test BOPs		Install wellhead		Act Hole Fill	IN/A	O.F. (kg/m3)	N/A	N/A
Lubricate Rig						LST BOP Drill: Calc Hole Fill		U.F. (Kg/III3) Hours/Davs	N/A	N/A N/A
Fiching				Total Hrs		Act Hole Fill		Boiler Hrs:	14/74	(to 24:00)
			NL 0.0011	Total His			04001)	Dolici Tit3.		(10 24.00)
24 HOUR S		HE DATE :	NOV3,2011			(0000 nrs - 2	2400 hrs)			
0700	0700	24hr	safety mee	ting with crew	and on site		discussed r	orașeura tastir	na	
0700	0100	2711	Drill out cer	ment from 23n	n to 28m	3000110101010	iliocuoseu p		ig	
			Pressure te	est to 500psi fo	or 10 mins. o	ood test				
-			Drill NQ roo	ds from 28m to	o 62m					
			Currently d	rilling anead a	at 62m					
			-							
					-	-				
24 HOUR F	Forcast -									
24 HOUR F	Forcast :									

Flat bay	Test Hole #9					REPORT #:	38	DATE:	Nov	/ 3rd,2011
DEPTH 24:00:	62m		PROGRESS:	15	9m	Last 24 Hr Rota	ating Time:		Ave ROP:	, -
OPER 09:00:						FOREMAN: H.H.	/NES		MOBILE NO.: 7	80-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		cold	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		5c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		1
				1		1		F		
	BIT PERFOR					DRILLIN	g fluid		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Type						Mud Grad		liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						рН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?								Nud Cuele		min
m/br						Oli (%) Pf/Mf		Bottoms Lin		min
Cum Hrs						мвт		Tanks		m3
o un rino	I					CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY	1		1		Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type	,				
1										
2						Mud Co.				
3					2007	Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	***		3	-		
Jts DP in hole:		DP on Loc:		DP Conn:	XXX	VOLUMES	M°			
DRILLING	OPERATIONS TI	ME BREAK	DOWN			Water added		Mud Daily Cost		
RU / TO		Survey		Move Rig		Losses		Mud Cum Cost		
Drill w/ fluid		Logging		Fishing		WELL CON	TROL	SOLIDS CO	NTROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	N/A	Shaker Make		_N/A
Reaming Bm Bathala		Cementing		WO Services		ST/Min	NI/A	Snaker Mesh	Desiltor	IN/A Contrifugo
Cond / Circ		NU BOP's		Mix mud			IN/A	Vol LIE (I/min)	N/A	N/A
Tripping		Test BOPs		Install Wellhead		Act Hole Fill	N/A	U.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				Lst BOP Drill:		O.F. (kg/m3)	N/A	N/A
Repair Rig		DST				Calc Hole Fill		Hours/Days	N/A	N/A
Fishing		Hndle Tools		Total Hrs		Act Hole Fill		Boiler Hrs:		(to 24:00)
24 HOUR S	UMMARY FOR T	HE DATE :	Nov4.2011			(0000 hrs - 2	2400 hrs)			
From	То	Duration				E	vent			
0700	0700	24hr	safety meet	ting with crew	and on site	supervisiors d	liscussed	muddy locatior	۱	
			Drill NQ roc	ls from 62m to	o 137m					
			Pull out of h	nole to change	e out bit					
			Drill NQ roc	is from 137m	to 159m	a alc ta aurfa a				
			Currentiy ng	gging up noie	to cement b	ack to surface	;			
24 HOUR F	orcast :									
Rig out rig a	and demobe									

						1				
Flat bay	Test Hole #9					REPORT #:	39	DATE:	Nov	4th,2011
DEPTH 24:00:			PROGRESS	:		Last 24 Hr Rot	ating Time:		Ave ROP:	
OPER 09:00:						FOREMAN: H.H	YNES		MOBILE NO.: 78	30-667-8775
DAILY COST:			HOLE CND.:			WEATHER:		cold	TOOLPUSH:	
CUM COST:			RIG / RIG #:			TEMP.:		5c	T.P. MOBILE:	
FORMATION:			K.B. ELEV.:			ROADS:	r	ough		
	BIT PERFOR	RMANCE				DRILLIN	IG FLUID		PUMPS	
Bit No.					1.00 °	Time		Pump No.		
Size (mm)						Depth(m)		Make		
Mfg.						Density		Model		
Туре						Mud Grad		Liner X Stk		
Serial #						Vis		SPM		
Nozzles						PV		Pump Eff.		
From (mKB)						YP		Pump Rate		
To (mKB)						Gels		Pump Press.		kPa
Hrs on Bit						pН		Drillpipe AV		m/min
WOB (daN)						WL (cc's)		Drillcollar AV		m/min
RPM						Filter Cake		Nozzle Vel		m/sec
Condition						Sand (%)				
Pulled For?						Solids (%)		M	UD & CHEM	ICALS
Meters						Oil (%)		Mud Cycle		min
m/hr						Pf/Mf		Bottoms Up		min
Cum Hrs						мвт		Tanks		m3
						CI (ppm)		Hole Volume		m3
BOTTOMH	OLE ASSEMBLY	,				Ca (ppm)		System Vol.		m3
No.	Item	Max OD	Min ID	Connection S	Size & Type			-	1	
1										
2						Mud Co.				
3						Mud Man				
BHA Length:		Hook Load:		DP size	XXX	Mud Up @				
Avail WOB:		Jts DP Racks		DC Conn:	XXX					
Its DP in hole:		DP on Loc:		DP Conn:	xxx		M <sup>3</sup>			
				Di Comi.	7000			Mud Daily Cast		
DKILLING	OFERATIONS II			Move Dig				Mud Cum Cost		
		Survey		NOVE RIG					NTROL	
Drill w/ fluid		Logging		Fishing				SULIDS CO	NIROL	N1/A
Drill w/ air		Run Casing		WO Materials		RSPP	IN/A	Shaker Make		
Reaming		Cementing		WO Services			NI/A	Snaker wesh	Desilter	IN/A Contrifugo
Rm Rathole		WOC		Safety Meeting			IN/A		Desliter	Centrifuge
Cond / Circ				wix mua		Calc Hole Fill	NI/A		N/A	N/A
Tripping		Test BOPs		Install wellhead		Act Hole Fill	IN/A	O.F. (kg/m3)	N/A	N/A
Lubricate Rig		Drill Out Cmt				LSt BOP Drill:		U.F. (kg/m3)	N/A	N/A
								Deiler Ure	IN/A	1N/A
Fishing		Hndle I ools		Total Hrs		Act Hole Fill		BOILET HIS:		(to 24:00)
24 HOUR S	SUMMARY FOR T	HE DATE :	Nov 5,2011	1		(0000 hrs -	2400 hrs)			
From	То	Duration				E	Event			
0700	0700	24hr	safety mee	ting with crew	and on site	supervisiors (	discussed	moving rig		
-			Finish cem	ent job, rig ou	t deverter an	d line.				
-			Rig out rig	, cut casing of	f at ground l	evel and weld	d on cap.			
-			Skid equip	ment out with	tractor to be	loaded to tak	e to Deer L	.ake		
			Rig release	ed						
			-							
			-							
			10/	<b>1</b>	(			1		
			Waiting on	float to come	from Deer La	ake to load e	quipment to	be shipped to	Logans yard	d.
24 HOUR F	orcast :									

Appendix III Bit Record

BIT RECORD									
BIT ID	Date								
79260-11	10/02/2011								
79316-10	10/06/2011								
57863-09	10/07/2011								
660186-04	10/10/2011								
103236-08	10/16/2011								
103235-08	10/17/2011								
103236-09	10/20/2011								
656116-01	10/23/2011								
647247-04	10/24/2011								

Appendix IV Composite Well Record







#### Anhydrite: From 28m-87.5m.

Steel blue, white, massive, very firm, sugary texture, slightly fibrous, frequent coarse crystalline, occasional brittle, minor thin (millimeter) irregular wisps of light brown, calcareous mud. From 22m - 25.6m abundant fractures at 30 deg to core axis infilled with crystalline anhydrite(2-3cm) wide. Vertical fractures (2-3mm) wide from 42m - 43m, at 49.5m, 0.38m long, at 52.2m, 0.18m long, at 73m, 1.12m long, at 85m, 0.45m long, Fracture at 50 deg to core axis at 64.4m, 0.10m long. Dark grey shaly mudstone laminations at 81.3m, 2cm long, at 30 deg to core axis, at 82.0m, 0.30m long. Core Boxes (1-16) 100% core recovery.

#### Limestone: From 87.5m-93.6m.

Light to medium gray, microcrystalline to crystalline, frequent light brown wavy beds (1-5mm thick) at 30 deg to core axis, laminated, hard, algae like structure. Frequent dark grey shaly mudstone laminations parallel to bedding from 90.3m to 91.7m, 1-2cm long. Porous sections filled with white crystalline calcite at 88.9m, 0.45m wide, and at 91.1m, 0.5cm long. No Oil shows. Core Boxes (16-17) 100% core recovery.

#### Conglomerate: From 93.6m-112m.

Mainly medium grey, cobble - pebble conglomerate with clasts mainly sized (4-16cm), sub-rounded to sub-angular, matrix supported, abundant large clasts mainly grey limestone, red quartzite, dolomite, red granite and lithic fragments. Approximately 10% of this interval is coarse to very coarse grained sand matrix, quartz, frequent red arkosic, quartzitic and red granitic, angular to rounded, very poorly sorted, well indurated, calcareous cemented, very hard. Red coarse grained granite, rich in K-feldspar at 110.6m, 0.20m long. Quartzite, off white, very hard, at 111.0m, 0.3m long. No Oil weeping from sandstone matrix or around clast boundaries. Porosity visually estimated at 1-2%. Core Boxes (17-22). 100% core recovery.

#### Conglomeratic - Sandstone: From 112m-120.3m.

Red, orange yellow, light green, coarse to very coarse grained, frequent pebbles and boulders, poorly sorted, subrounded to angular, predominately quartz, firm to friable, consolidated to un-consolidated with calcareous cement, arkosic, with brecciated fragments of orange feldspar, green mafics, and chlorite schist, frequent boulder size (5mm-12mm) clasts of grey limestone, buff dolomite and hematized quartzites. at 113.2m to 113.7m, Claystone, red, strongly hematized, soft to firm, frequent dark red,



orange brown, consolidated to unconsolidated, at 30 deg to core axis. No visible porosity. Core Boxes(22-24). 90% Core Recovery.

**Conglomerate: From 120.3m-123.1m.** Mainly medium grey, boulder - pebble conglomerate with clasts size (4-12cm), subrounded to sub-angular, matrix supported, abundant clasts mainly grey limestone, red quartzite, dolomite, red granite and lithic fragments. Approximately 10% of this interval is coarse to very coarse grained sand matrix, quartz, frequent red arkosic, off white quartzitic, angular to rounded, very poorly sorted, well indurated, calcareous cemented, very hard. No Oil weeping from sandstone matrix or around clast boundaries. Porosity visually estimated at 1-2%. Core Box (24). 100% recovery.

#### Conglomeratic - Sandstone: From 123.1m-147m.

Red, orange yellow, light to dark green, coarse to very coarse grained, occasional pebbles and boulders, poorly sorted, subrounded to angular, predominately quartz, firm to friable, consolidated to unconsolidated with calcareous cement, coarse arkosic rich, with brecciated fragments of orange K-feldspar, green mafics, and chlorite schist, some boulder size (5mm-9mm) clasts of grey limestone, buff dolomite and hematized quartzites. Claystone, red, strongly hematized, soft to firm, frequent dark red, orange brown, silty, consolidated to unconsolidated, at 125.3m, 0.60m long, at 127.3m, 0.31m long, at 128.7m, 0.92m long, at 133.9m, 1.46m long, at 135.9m, 0.25m long, at 136.6m, 0.29m long, at 138.1m, 0.38m long, and at 142.6m, 0.38m long at 35 deg to core axis,. No visible porosity. Core Boxes(25-30). 100% Core Recovery.

Granite - Mafic Gneiss: From 147m-159m. Mainly Granite Gneiss with abundant white to glassy quartz and red orange K-feldspar, coarse to medium grained, massive to foliated, highly fractured. Frequent guartz carbonate streaks, frequent sections of dark green mafic gneiss with green chlorite and light green epidote alterations, well developed schistosity at 45 deg to Core Axis. Massive off white quartzite, very hard, from 147.0m-147.2m. Live Oil weeping from fractures at 153.0m, 153.4m-153.5m, 154.1m-154.4m and 155.0m. Core intervals put in PVC tubing for detailed analyses: 154.1m - 154.4m, 153.4m-153.5m. Core Boxes(30-34). 60% Core Recovery. Final Total Depth at 159m. 2011-11-04.

Appendix V Stratigraphic Column Appendix VI Core Box Depths

Holo #	Dov #	DEPTH			
noie #	BOX #	From (m)	to (m)		
9	1	19.00	22.50		
9	2	22.50	26.97		
9	3	26.97	31.43		
9	4	31.43	35.90		
9	5	35.90	40.37		
9	6	40.37	44.83		
9	7	44.83	49.30		
9	8	49.30	53.77		
9	9	53.77	58.23		
9	10	58.23	62.70		
9	11	62.70	67.17		
9	12	67.17	71.63		
9	13	71.63	76.10		
9	14	76.10	80.57		
9	15	80.57	85.03		
9	16	85.03	89.50		
9	17	89.50	94.30		
9	18	94.30	98.44		
9	19	98.44	102.58		
9	20	102.58	106.72		
9	21	106.72	110.86		
9	22	110.86	115.00		
9	23	115.00	119.05		
9	24	119.05	123.10		
9	25	123.10	125.49		
9	26	125.49	127.88		
9	27	127.88	130.27		
9	28	130.27	132.66		
9	29	132.66	135.05		
9	30	135.05	137.44		
9	31	137.44	139.83		
9	32	139.83	142.22		
9	33	142.22	144.61		
9	34	144.61	147.00		

Appendix VII Lithological Descriptions

# Vulcan - Investcan FB TH - 9: 2011-11-06

Dept	th (m)	Thickness	Decembrica		Dentity		Deal and the
From	То	(m)	Description	Lineations	Porosity	Oil/gas show	ROCK quality
			Overburden: Glacial till with some boulders and pebbles of igneous & metamorphic origin in a				
0.0	19.0	19.0	matrix of mainly sand and clay.				unconsolidated
19.0 - 22	2.0 m, Co	droy Road	Formation, Gypsum Unit				
			Gypsum: White, mainly massive, soft, occasional powdery, minor crystalline, chalky to sugary				
19.0	22.0	3.0	texture, minor calcareous dark grey clay seams. Core Box (1). 100% core recovery.				Consolidated
22.0.07	1.5.0	Cardway, Da	ed Fernantien. Auburbie Unit				
22.0 - 8/	7.5.0 m, 0	Loaroy Ro	ad Formation, Annydrite Unit		<u> </u>		1
			Anhydrite: Steel blue, white, massive, very firm, sugary texture, slightly fibrous, frequent coarse				
			crystalline, occasional brittle, minor thin (millimeter) irregular wisps of light brown, calcareous				
			mud. From 22m - 25.6m abundant fractures at 30 deg to core axis infilled with crystalline				
			anhydrite(2-3cm) wide. Vertical fractures (2-3mm) wide from 42m - 43m, at 49.5m, 0.38m long, at				
			52 2m 0.18m long at 73m 1.12m long at 85m 0.45m long Fracture at 50 deg to core axis at				
			64.4m. 0.10m long. Dark grev shalv mudstone laminations at 81.3m. 2cm long, at 30 deg to core				
22.0	87.5	65.5	axis, at 82.0m, 0.30m long. Core Boxes (1-16) 100% core recovery.	30 <sup>0</sup> CA			Consolidated
87.5 - 93	3.6 m, Sh	ip Cove Li	mestone Formation				
			Limestone: Light to medium gray, microcrystalline to crystalline, frequent light brown wavy beds (1-				
			5mm thick) at 30 deg to core axis, laminated, hard, algae like structure. Frequent dark grey shaly				
			mudstone laminations parallel to bedding from 90.3m to 91.7m, 1-2cm long. Porous sections filled				
			with white crystalline calcite at 88.9m, 0.45m wide, and at 91.1m, 0.5cm long. No Oil shows. Core				
87.5	93.6	6.1	Boxes (16-17) 100% core recovery.	30 <sup>0</sup> CA		No Oil shows	Consolidated
		1					
	1	1		1	1		1

93.6 - 14	7.0m Sp	out Falls I	Formation, Fishell's Brook Conglomerate			1	1
93.6	112	18.4	Conglomerate: Mainly medium grey, cobble - pebble conglomerate with clasts mainly sized (4- 16cm), sub-rounded to sub-angular, matrix supported, abundant large clasts mainly grey limestone, red quartzite, dolomite, red granite and lithic fragments. Approximately 10% of this interval is coarse to very coarse grained sand matrix, quartz, frequent red arkosic, quartzitic and red granitic, angular to rounded, very poorly sorted, well indurated, calcareous cemented, very hard. Red coarse grained granite, rich in K-feldspar at 110.6m, 0.20m long. Quartzite, off white, very hard, at 111.0m, 0.3m long. No Oil weeping from sandstone matrix or around clast boundaries. Porosity visually estimated at 1-2%. <b>Core Boxes (17-22). 100% core recovery.</b>	1 - 2%		No oil shows from sandstone matrix or from around clast boundaries.	Consolidated
112	120.3	8.3	Conglomeratic Sandstone: Red, orange yellow, light green, coarse to very coarse grained, frequent pebbles and boulders, poorly sorted, subrounded to angular, predominately quartz, firm to friable, consolidated to un-consolidated with calcareous cement, arkosic, with brecciated fragments of orange feldspar, green mafics, and chlorite schist, frequent boulder size (5mm-12mm) clasts of grey limestone, buff dolomite and hematized quartzites. At 113.2m to 113.7m, Claystone, red, strongly hematized, soft to firm, frequent dark red, orange brown, consolidated to un-consolidated, at 30 deg to core axis. No visible porosity. <b>Core Boxes(22-24). 90% Core Recovery.</b>	30 <sup>0</sup> CA		No Oil shows	Consolidated to Un-consolidated
120.3	123.1	2.8	Conglomerate: Mainly medium grey, boulder - pebble conglomerate with clasts size (4-12cm), sub- rounded to sub-angular, matrix supported, abundant clasts mainly grey limestone, red quartzite, dolomite, red granite and lithic fragments. Approximately 10% of this interval is coarse to very coarse grained sand matrix, quartz, frequent red arkosic, off white quartzitic, angular to rounded, very poorly sorted, well indurated, calcareous cemented, very hard. No Oil weeping from sandstone matrix or around clast boundaries. Porosity visually estimated at 1-2%. <b>Core Box (24). 100%</b> <b>recovery.</b>	1 - 2%		No oil shows from sandstone matrix or from around clast boundaries.	Consolidated
123.1	147.0	23.9	Conglomeratic Sandstone: Red, orange yellow, light to dark green, coarse to very coarse grained, occasional pebbles and boulders, poorly sorted, subrounded to angular, predominately quartz, firm to friable, consolidated to un-consolidated with calcareous cement, coarse arkosic rich, with brecciated fragments of orange K-feldspar, green mafics, and chlorite schist, some boulder size (5mm-9mm) clasts of grey limestone, buff dolomite and hematized quartzites. Claystone, red, strongly hematized, soft to firm, frequent dark red, orange brown, silty, consolidated to un-consolidated, at 125.3m, 0.60m long, at 127.3m, 0.31m long, at 128.7m, 0.92m long, at 133.9m, 1.46m long, at 135.9m, 0.25m long, at 136.6m, 0.29m long, at 138.1m, 0.38m long, and at 142.6m, 0.38m long at 35 deg to core axis. No visible porosity. <b>Core Boxes(25-30). 100% Core Recovery.</b>	35 <sup>0</sup> CA		No Oil shows	Consolidated to Un-consolidated
1	1	1			1	1	1

147.0 - 1	159.0m P	reCambri	an Basement Granite and Mafic Gneiss			
147.0	159.0	12	Granite - Mafic Gneiss: Mainly Granite Gneiss with abundant white to glassy quartz and red orange K-feldspar, coarse to medium grained, massive to foliated, highly fractured. Frequent quartz carbonate streaks, frequent sections of dark green mafic gneiss with green chlorite and light green epidote alterations, well developed schistosity at 45 <sup>°</sup> to CA. Massive off white quartzite, very hard, from 147.0m-147.2m. Live Oil weeping from fractures at 153.0m, 153.4m-153.5m, 154.1m-154.4m and 155.0m. Core intervals put in PVC tubing for detailed analyses: 154.1m - 154.4m, 153.4m-153.5m. <b>Core Boxes(30-34). 60% Core Recovery. Final Total Depth at 159m. 2011-11-04.</b>	45 <sup>0</sup> CA	minor Oil shows at 153.0m, 153.4m- 153.5m, 154.1m-154.4 and 155m.	Consolidated to Un-consolidated
						1

Appendix VIII Legal Survey



Surveyor's Report Drill Hole locations Flat Bay area

#	Northing	Easting	Elev	Description
120	5360176.766	383666.632	16.390	FBTH9
122	5359905.747	383431.320	20.414	FBTH4
124	5360379.149	385040.549	18.464	FBTH8
126	5358293.931	384555.284	65.992	FBTH6
128	5357590.861	384810.480	80.448	FBTH7
130	5360934.748	383173.511	7.369	FBTH5

R. Davis Surveys Ltd. November 15, 2011



Appendix IX Core Photos



NF-55271 Dec 19, 2011









151.35 m



























































































NF-55271 Dec 19, 2011





143.26 m

143.76 m






































































# NF-55271 Dec 19, 2011





27









































































NF-55271 Dec 19, 2011









124.58 m





NF-55271 Dec 19, 2011





122.62 m































# NF-55271 Dec 19, 2011









118.58 m



### NF-55271 Dec 19, 20<u>1</u>1







117.13 m



















NF-55271 Dec 19, <u>201</u>1



















































































NF-55271 Dec 19, 2011









104.26 m

















NF-55271 Dec 19, 2011











101.38 m





# NF-55271 Dec 19, 2011





99.47 m









# NF-55271 Dec 19, 2011

97.58 m












































































### NF-55271 Dec 19, 2011









# NF-55271 Dec 19, 2011





89.42 m

89.92 m





# NF-55271 Dec 19, 2011











# NF-55271 Dec 19, 2011









Appendix X Core Analysis Report



#### SUMMARY OF CONVENTIONAL CORE ANALYSES RESULTS

Conventional Oven Dried at 95°C

Vulcan Minerals Inc. FBTH #9 Robinson and Red Brooks Field Newfoundland File:NF-55271 Date: 3-7-12

					Residual Fliud		
	Sample	Permeability,	Porosity,	Grain	Saturations		Lithological
Sample	Depth,	millidarcys		Density,	Oil	Water	Description
Number	m	to Air	fraction	kg/m³	fracti	ion	
9_1	92.32	0.0069	0.048	2770	0.233	0.050	ls, anhy
9_2	95.73	0.0444	0.064	2680	0.066	0.299	ss, calc.
9_3	100.65	0.190	0.059	2670	0.214	0.217	cgl, calc
9_4	105.10	0.478	0.091	2670	0.149	0.295	cgl, calc
9_5	110.12	0.458	0.082	2680	0.009	0.519	cgl, calc
9_6	115.68	0.873	0.140	2650	0.098	0.352	cgl, sl calc
9_7	120.18	0.803	0.127	2660	0.091	0.424	ss, calc.
9_8	121.45	1.97	0.124	2670	0.021	0.651	ss, dol
9_9	126.05	1.31	0.094	2670	0.250	0.707	cgl, calc
9_10	127.52	1.14	0.115	2750	0.065	0.867	ss, dol
9_11	132.35	0.233	0.112	2750	0.093	0.758	ss, dol
9_12	136.73	0.685	0.114	2760	0.009	0.946	ss, dol
9_13	140.81	+	0.115	2740	0.011	0.899	ss, dol
9_14	148.40	0.0175	0.033	2690	0.011	0.591	cgl, calc
9_15	149.70	0.0027	0.024	2700	0.006	0.493	cgl, calc
9_16	151.57	0.0311	0.016	2690	0.012	0.462	cgl, sl calc

+ indicates unsuitable for this testing

Appendix XI Well Termination Record



#### WELL TERMINATION RECORD

#### WELL DATA

Well Name: Flat Bay Test H		Bay Test Hole 9			CO-ORDINATES							
Operator:	Vulcan Minerals In	Vulcan Minerals Inc			Long :			UTM (NAD 27)				
							Northing:		5360176.766			
Drilling Rig :	Duralite 800			Lat.:		Easting :		383666.632				
Rig Type :	Core Drill	Core Drill			ELEVATION					DEPTH		
				R	T	KB	∏RF		m	M.D. :	15	9
Drilling Contra	togan Drilling Lim	Logan Drilling Limited			G.L.: 16.390					<b>T.V.D.:</b> 159		9
					FOR INTERNAL USE ONLY							
Spud Date:	Spud Date: November 1, 2011			For the purpose of interpreting subsection 154 (5) of the Petroleum								
T.D. Date:	D. Date: November 4, 2011		Drilling Regulations, the rig release date is deemed to be:									
Rig Release D	ate: November 4, 201	1										
Well Termina	tion Date: Novembe	er 22, 2011										
Purpose of 1	Purpose of Termination: Suspension 🗵 Abandonment			Completion Other:								
			CASING AND C	EME	NTI	NG P	ROGR	AM				
O.D. (mm)	WEIGHT (kg/m)	GRADE	SETTING DEPTH (m	n) CEMENTIN			IG DETAILS					
88.9	12.8		19	Ce	Cemented hole from EOH (159m) to surface.							

#### **PLUGGING PROGRAM**

Approval of the following program was obtained by (person)	Patrick Laracy
------------------------------------------------------------	----------------

from	(person)	Kaith Hynas
nom	(person)	Keith Hynes

Patrick Laracy

from (person) Keith Hynes			of the Department of Natural Resources by means of
Drilling Program Approval	and Authority to Drill Well	dated Aug	ust 19, 2011
Type of Plug	Interval	Felt/Pressure Tested	Cement and Additives
Cement	0-159m	Observed at Surface	1820 kg-m3, type A

Lost Circulation/Overpressure Zones:

Downhole Completion/Suspension Equipment (Describe Below and Attach Sketch of Wellbore)

Cement from surface to EOH - See attached sketch. Casing cut off 1m below grade.

#### DECLARATION

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

Name	Elliott M. Stuckless	Title	Geologist				
Signed		Date	November 22, 2011				

ACKNOWLEDGEMENT

Acknow	ledged	by:

Date: \_

Director

