



Investcan Energy Corp

Final Well Report

For

Red Brook#2 Workover

At

Permit 03-107

Western Newfoundland

Record of Revision					
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1 INTRODUCTION

1.1 HISTORY

The Vulcan Investcan Red Brook#2 well was drilled by Vulcan Minerals Inc. (Vulcan) (pursuant to a 50/50 joint venture with Investcan Energy Corp.) to test stratigraphic play along the west side of the Flat Bay Anticline which is mapped at surface over a 20 km strike length. The main objective of the Red Brook#2 exploration well was to explore and evaluate the hydrocarbon bearing potential of structures at and below the Fischells Brook conglomerate identified off surface seismic of the Bay St. George basin. This exploratory oil and gas well is located approximately 1.5 km due east of the community of Heatherton in the Bay St. George area of western Newfoundland.

The well spudded on October 21st, 2009 using Stoneham Drilling's Rig #11, drilled to 1965m MD, was cased with 178 mm production casing and suspended. Based on numerous gas shows and data from a full suite of wireline evaluation logs run over the potential pay zones, five drill stem tests were run on this well. The Red Brook#2 well flowed natural gas to surface on three drill stem tests. This was the first flow of natural gas to surface for any petroleum well in the Bay St. George basin and clearly demonstrates the hydrocarbon potential of this under-explored area.

In 2010 the well was re-entered using Ecan Energy Rig#3 (Service Rig). Three intervals were perforated. Build up rates were recorded.

In 2011 a Diagnostic Fracture Injection Test (DFIT) was performed on interval D (see Table 1-1).

1.2 OLD COMPLETION AND PERFORATION SUMMARY

In September 2010, intervals "A", "C" and "D" were perforated and pressure build up rates were recorded.

Casing size (mm)	Interval Designation	Perf Depth mKB		Current Status
		Top	Bottom	
177.8	Interval "D"	1297	1311	10K tubing set retrievable Completion packer set above perfs. Production tubing to surface.
177.8	Interval "D"	1324	1334	
177.8	Interval "C"	1558	1573	Suspended; 10K wireline set retrievable packer (with plug) @ 1540mMD covered w/4m of sand.
177.8	Interval "A"	1755	1762	Abandoned with TV-10, 10kPsi drillable bridge plug set @ 1750 mMD. 8m of cement dump bailed on plug.

Table 1-1 - Perforation Intervals

All intervals perforated with 114.3mm, ERHSC Gun, 13 SPM, 60 degree phasing c/w 39gm DP and StimGun sleeve.

Interval A was perforated on August 31st, 2010 and a pressure build-up (PBU) recorded. With minimal surface response and low inflow rate the zone was abandoned with a bridge plug cover by 8m of cement.

Interval C was perforated next on September 3rd, 2010. Bottom hole pressures were monitored and from a Perforation Inflow Test Analysis (PITA), an extrapolated formation pressure of 12,523 kPa was calculated (8.04 kPa/m @ 20.5 degC). This zone was then suspended with a hydraulic wireline set packer set at 1540 mMD and cover with 4m of sand.

Interval D was perforated on September 11th, 2010. Bottom hole pressures were monitored and from a Perforation Inflow Test Analysis (PITA), an extrapolated formation pressure of 12,490 kPa was calculated (9.63 kPa/m @ 17.7 deg C).

On November 24th, 2010 the equipment to perform a Diagnostic Fracture Injection Test (DFIT) was mobilized to the site. The operation was conducted on Interval D and the well was shut in for 72 hours to monitor the pressure fall-off. From this operation the formation pressure of Interval "D" was estimated to be 14,400 kPa (11.1 kPa/m) @ 17.7°C and with a fracture gradient of 22.7 kPa/m.

Completion Diagram (Before Workover)

- Latest version of well diagram: Dec 1st, 2010
- Interval "A": 1755-1762 mKB
- Interval "C": 1558-1573 mKB;
- Interval "D": 1297-1311;1324-1334 mKB
- Bridge Plug mid point:1750m (8m cement bailed)
- Packer plug mid point:1540m (4m sand bailed)
- Tubing set with packer:1239m KB
- All depths are reference to Rig Ecan#3 KB-GL elevation (4.3m)

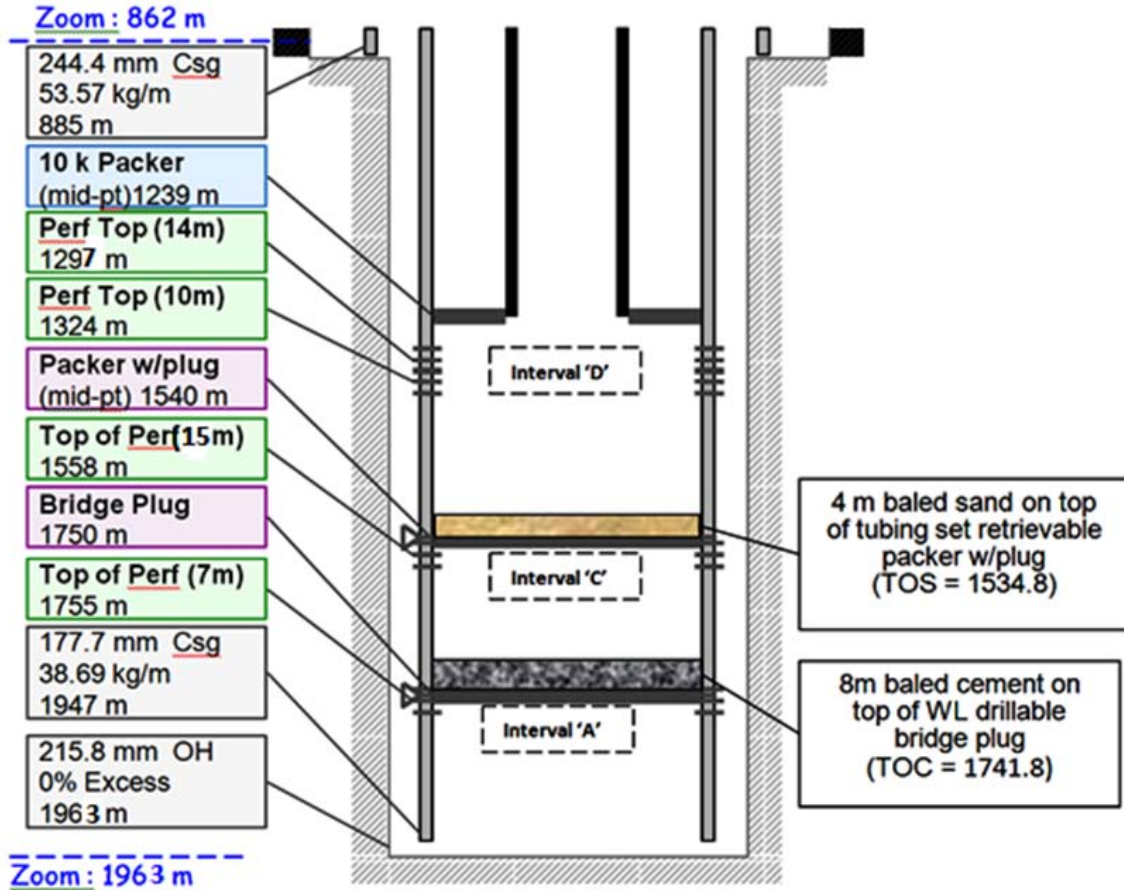


Figure 1-1 - Well diagram (Dec 1st, 2010)

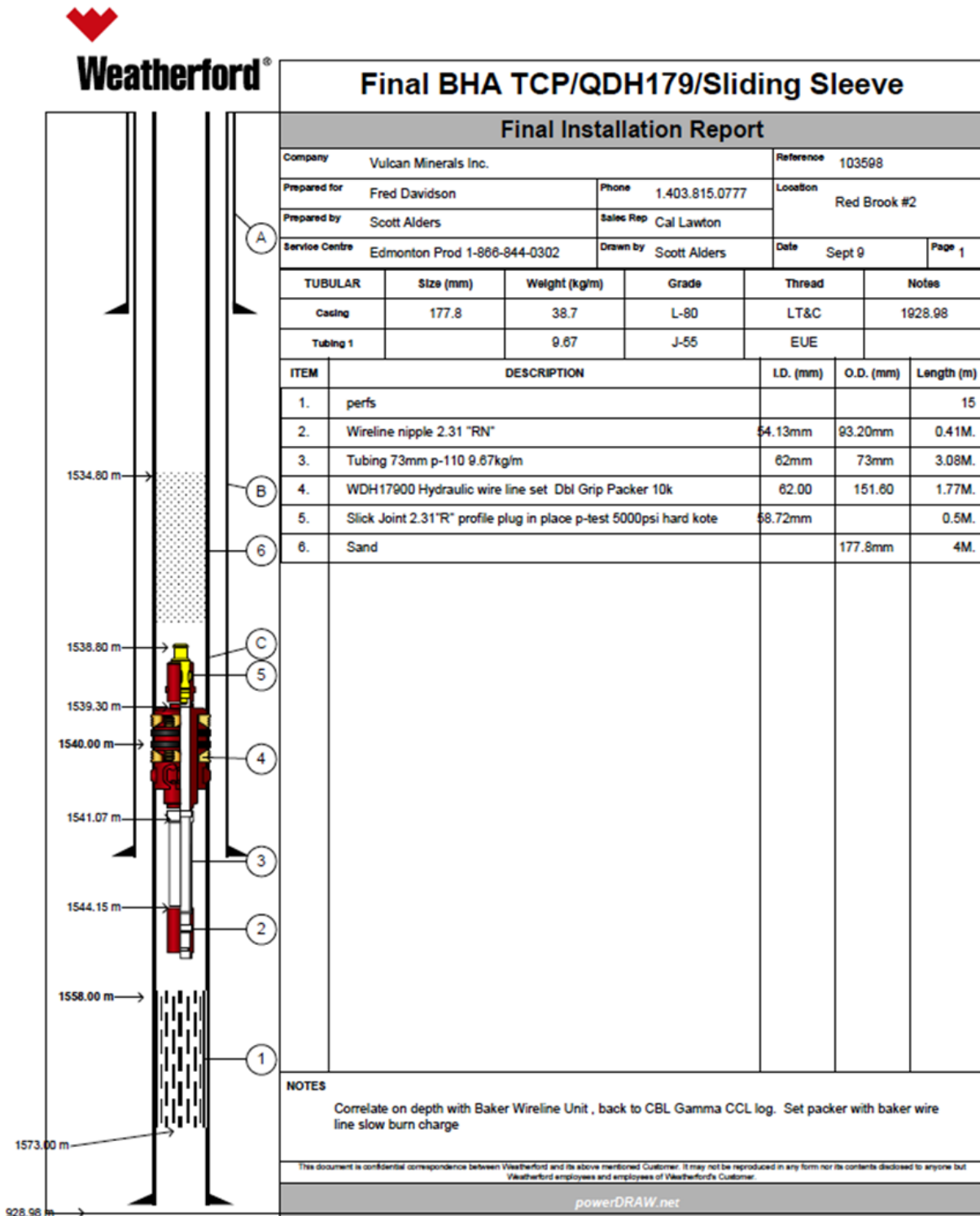


Figure 1-2 - WDH wire line set packer was set above interval "C" (Sept 2010)

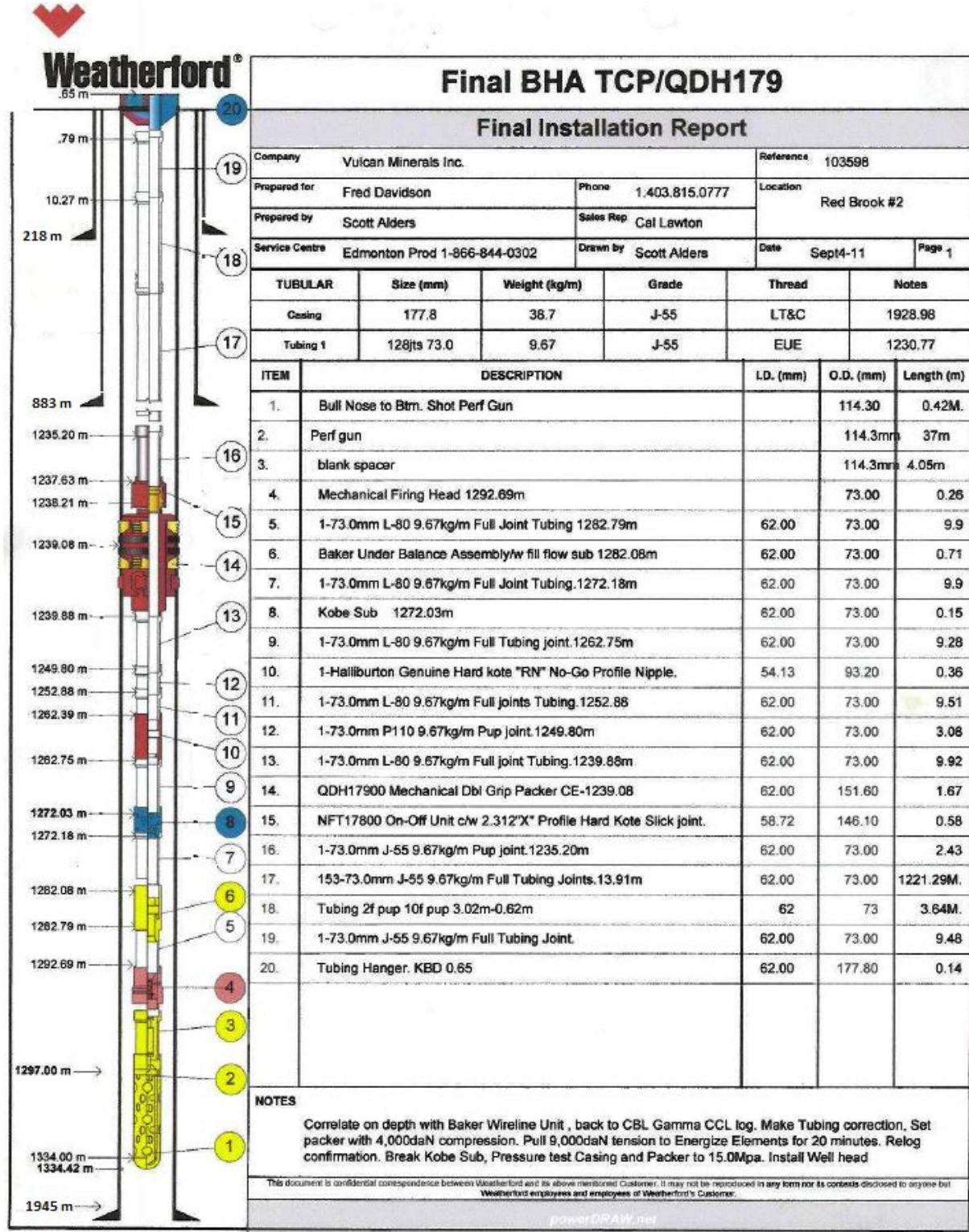


Figure 1-3 - Completion Diagram as run (Sept 2010)

1.3 WORKOVER OBJECTIVES & RESULTS

The objective of the workover operation was to take the opportunity of having a rig on location to perform an electro hydraulic stimulation (BlueSpark) of the main intervals of interest (namely interval “C” and “D”) and re-completing the well to allow further evaluation on both intervals separately. The wireline set packer at 1540m (top of interval C) was planned to be retrieved and the completion string to be pulled in order to run a new completion string with two packers after stimulation: testing each individual zone separately would then be possible without a workover.

However, the workover operation was incomplete as the completion packer (Weatherford QDH Mechanical Double Grip Packer) set at 1239m KB could not be retrieved after almost seven days of working on packer and fishing operations including pulling, jarring, applying torque and milling. As a result, the Operator has decided to suspend operations in order to evaluate the situation and prepare a specific program to finish milling the packer and retrieve the completion.

Red Brook#2 was completed by re-running the same 73.0 mm tubing down to 1014.60m and installing the Christmas tree on the wellhead that was previously in place. The well will be re-entered at a later time to retrieve the completion packer and to resume the planned workover operation.

1.4 WORK OVER OPERATION SUMMARY

The Red Brook#2 workover operation was done by IEC, using the Foragaz#3 Rig. The original plan was for the Rig to work only 12 hours per day, however it worked 24 hours during the fishing operation to maximize efficiency. Management of the operation was undertaken by IEC Staff with support of contracted drilling supervision.

Rig Foragaz#3 started moving from the Gobineau#1 well location to the Red Brook#2 well location on Wednesday October 23th, 2013 and was rigged up and ready for the workover operation on Saturday October 26th, 2013. The operation started with mixing 2% KCl water solution as the completion fluid for killing the well on Saturday October 26th, 2013 at 11:00 hrs (Official Spud Time).

The tubing pressure recorded was 5500 kPa / 800 psi and the (177.8mm x 73mm) annulus pressure recorded was 1550 kPa / 225 psi. Rig kill lines were hooked up to the well and 2% KCl mud was used to kill the well by the volumetric (lubricating and bleed back) method. The annulus pressure was bled off and zero pressures were monitored on both sides for 15 min to verify well is dead.

A back pressure valve (one way check valve) was set inside the tubing hanger prior to remove the Christmas tree and nipple up BOP's as a secondary safety barrier. The Rig BOP's was nipped up on October 28th, 2013 and pressure tested accordingly. A wellhead plug (two way check valve) was set inside tubing hanger instead of BPV prior to pressure test the blind rams.

On October 29th, 2013 a 73.0mm EUE tubing joint was screwed onto tubing hanger and pulled the hanger free to 27,000 lbs. Subsequently, the Weatherford procedure was followed to unseat the QDH Mechanical Double Grip Completion Packer by turning completion string 6 turns maximum to the right

and pulling up to max 60,000 lbs, however the packer did not released. 6.67 days of unsuccessful fishing and milling operations followed on Red Brook#2 to unseat and release the Completion Packer at 1239m.

Refer to section 3.7 for more details about the fishing & milling operations.

On November 7th, 2013, IEC decided to stop fishing operations. 73.0 mm tubing was run to 1014.6m, BOP's were nipped down and the Christmas tree was installed on the wellhead and pressure tested to 15,000 kPa for 15min. The rig was subsequently released at 12:00 hours on November 8th, 2013 from the well and started to move to IEC yard in Stephenville.

Except milling operation, no major problems were experienced during the workover and more particularly:

- No significant fluid losses encountered
- No H₂S / CO₂ gas encountered

The Foragaz Rig#3 performed generally well, other than a 5.0 hours repair time and 7.0 hours wait on crew change. Total 158.25 hours spent for fishing & milling operation.

Well site drilling supervision was done by Travis Young (Company Man). Operations management was supervised by Antoine Forcinal, P.Eng., Technical Manager at IEC.

2 GENERAL INFORMATION

2.1 ADMINISTRATIVE DATA

Well Name:	<i>Red Brook#2</i>	
Operator	<i>Investcan Energy Corp.</i>	
Permit	<i>EL 03-107</i>	
RPA	<i>RPA 2013-131-03</i>	
ARW	<i>ARW 2013-131-03-01</i>	
Operator	<i>Investcan Energy Corporation</i>	
Contractor	<i>Foragaz Inc (a division of Junex Inc)</i>	
Drilling Rig:	<i>Rig#3</i>	
Rig Type:	<i>Guyed telescopic double</i>	
Geographic Coordinates:	UTM "X" East NAD 27	<i>370,104.380m</i>
	UTM "Y" North NAD 27	<i>5,347,380.564m</i>
Survey Summary	<i>Max Well Inclination: 9.5° at TD 1963m</i>	

Table 2-1 - General Information on Red Brook#2 Workover

The Red Brook#2 location is approximately 35km south of Stephenville Crossing. Ground elevation is 57m. Maps of the area and the well site layout can be found in Appendix A.

Site can be accessed via the TransCanada Highway. Take highway 490 east from Stephenville. Pass through Stephenville Crossing. At the TransCanada Highway#1 travel south; after approximately 35 kms turn right onto 404 Drive 3 kms down 404 and turn right travelling north on the trail way. After 2.7kms the rig is located on the left side.

Included in Appendix B are copies of the various government approvals granted during operations.

2.2 DRILLING UNIT

Company & Rig	Foragaz Inc, Division of Junex, Inc., Rig #3	
Construction Completed:	2010	(DOUBLE U-34) with Top Drive
Specifications:	Substructure Type:	Box-on-Box (8 pieces)
	Rig Floor level and KB	13,5m (13ft)
	Mast Type and Height	29.26m (96ft) Guyed Telescopic Double
	Maximum Drill Depth	2000m
	Maximum Hook Load	80,000 daN (180,000 lbf)
	Drawworks (power, engine)	Simple Drum, 450HP Detroit Diesel 560 12.7L
	Top Drive Torque	597 daN-m (4,400 lbf-ft @100RPM)
	Drilling Line	1 inch – 6 lines
	Carrier	Lee-C Moore, 3 rear axles
	Drill Pipe	101mm (4inch) 20,46 daN/m (14lb/ft), S-135 connection 3 ½ IF (NC 38), 2,000M (6,562 ft)

Table 2-2 - General Information on Foragaz Rig#3

2.3 ELEVATIONS

Ground Level Elevation: 57.1 m (ref. MSL)

KB Elevation: 61.22 m (ref. MSL) / 4.12 m (ref. MSL)

Tubing Head Elevation from GL: 0.52 m

2.4 DEPTHS

Total Depth: 1963 meters MD KB/ 1949 meters TVD KB

TOF (Packer): 1237 meters MD KB / 1232.4 meters TVD KB

2.5 DATES AND TIMES

Rig Moving Date: 07:00 hrs, October 23rd, 2013
 Rig up Start Date: 07:00 hrs, October 25th, 2013
 Rig Spud Date: 11:00 hrs, October 26th, 2013
 End of Workover Operation: 12:00 hrs, November 8th, 2013
 Rig Release Date: 12:00 hrs, November 8th, 2013

2.6 WELL STATUS

The Red Brook#2 well is completed with 1014.6m KB of 73.0 mm J-55 EUE tubing after an unsuccessful fishing / milling operation to unseat and retrieve the QDH Completion packer at 1239m (TOF at 1237m KB).

- ✓ TD: 1963m MD KB / 1949 TVD RKB.
- ✓ Casing: 177.8 mm Production Casing 38.7kg/m, J-55 set at 1945 KB and cemented to 107m.
- ✓ Completion String:
 - 177.8 mm Production Casing 38.7kg/m, J-55 set at 1945 KB and cemented to 107m.
 - 73mm (2-7/8") 9.67 kg/m J-55 EUE completion tubing from surface to 1014.6m KB.
 - 177.8mm Completion Packer (QDH17900 Mechanical Double Grip) set at 1239m KB.
 - Packer was milled 54 cm by washover mill shoe from 1237.44m to 1237.98m (refer to [Figure 2-1](#)).
 - 73mm (2-7/8") 9.67 kg/m J-55 EUE completion tubing from 1239m to 1292m KB.
 - TCP perforation Gun Assembly with Bull Nose at 1334m.
- ✓ Isolation Packer: 177.8mm DWH Dbl Grip10K Wireline set packer at 1540m KB with 4m sands on top of packer.
- ✓ Bridge Plug: 177.8mm bridge plug set at 1750m KB, dumped 8 meter cement with bailer, TOC at 1741.8m.
- ✓ Well Head: 346mm 34,500 kPa x 179.4mm 69,000 kPa Tubing Head.
- ✓ Completion Fluid in Hole: 2% KCl water.
- ✓ Current Well head pressure: 0 kPa.
- ✓ Note: all depths are measured with reference to the Foragaz Rig#3 KB-GL (4.12m).

2.7 TIME & COST ANALYSIS

Original AFE			Actual	
Activity	Days	Cost (CAD \$)	Days	Cost (CAD \$)
Workover	11.5	\$0.42MM	16.5	\$0.60 MM

Table 2-3 - Time and Costs summary table

A daily detailed time breakdown is available from the Investcan daily reports included in Appendix C. The workover time breakdown table and charts are located in Appendix D. A summary of the operation costs for the well is included in Appendix E. The actual days are including 2.0 days rig moving from Gobineau#1 location to Red Brook#2 wellsite.

2.8 *BENEFITS TRACKING*

The complete benefits tracking for the well is included in Appendix F.

2.9 *DIFFICULTIES & DELAYS*

The following provides a summary of the difficulties and delays that occurred during the drilling of Red Brook#2 Workover:

- 0.5 hour NPT for Investcan due to wrong size BPV, which could not seat inside the tubing hanger.
- 5.0 hours total rig repair (0.5 for BOP test, 1 hour for Rig Tong, 0.75 hour for TDS and 2.75 hours for other rig issues).
- 7.0 hours wait on Rig crew change.
- 15.0 hours wait on adverse weather (Operation Shut down).
- 158.25 hours fishing & milling of completion packer including:
 - 33.67 hours milling operation
 - 76.00 hours tripping with fishing / milling BHAs
 - 3.25 hours circulating hours on top of fish
 - 45.33 hours working on fish by pulling, jarring and applying torque

Refer to time breakdown charts in Appendix D for detailed analysis of difficulties and delays.

2.10 *HOLE SIZE AND DEPTHS*

	Hole Size [mm]	Casing Size [mm]	Setting Depth [mRF]
Conductor	431.8	339.7	218
Surface Casing	311.2	244.5	883
Production Casing	215.9	177.8	1945

Table 2-4 - Hole sizes and depth table

2.11 *BIT RECORDS*

No bits were used in Red Brook#2 workover.

2.12 CASING AND CEMENTING RECORDS

No casing and cementing operations were done during the workover operation.

2.13 SIDETRACKED HOLE

There were no sidetracks during the well.

2.14 WORKOVER FLUID

2% KCl water solution was used as workover fluid.

A summary table is shown below:

Hole Section	Depth [m]	Diameter [mm]	Fluid Type	Viscosity [sec/L]	Weight [kg/m³]
Cased Hole	1945	177.8	2% KCl	N/A	1010-1015

Table 2-5 - Drilling Fluids Summary

2.15 FLUID DISPOSAL

The workover fluids – 2% KCl – were recycled during the entire campaign. No fluid disposal was required for this workover.

No permanent sewer system was built. All sanitary waste was collected regularly by third-party contractor and was disposed of within the regulations.

2.16 FISHING OPERATIONS

Almost 7 days of unsuccessful fishing and milling operations were carried on Red Brook#2 to unseat and release the QDH Mechanical Double Grip 10K Completion Packer at 1239m.

On October 29th, 2013 a 2-7/8" EUE tubing joint was screwed onto tubing hanger and pulled hanger free to 27,000 lbs. The release procedure from Weatherford was then followed up to unseat the QDH Mechanical Double Grip packer by turning completion string from 3 to max 6 turns in steps to the right and pulling up to max 60,000 lbs, however the packer was not released.

On October 30th, 2013 the NFT On-Off Tool was unlatched from the packer and the tubing out of the well (including On-Off tool). Different fishing BHA's (overshot assembly and jar) were then run in the well to attempt to unseat the packer by jarring, applying torque and also pulling the string to 180,000 lbs (Rig Max Hook Load). Unfortunately, despite best efforts, these attempts did not release the packer.

On November 1st, 2013, Investcan decided to run a milling BHA including a washover mill shoe and wash pipe extension into the well to mill the top part of the packer slip cage (Upper Dogs Elements) in order to release the packer from the casing. The washover mill shoe with 6” OD and 5” ID washed over the 0.44m top section of the packer and started milling from the section D “Slip Cage” at 1237.44m (TOF at 1237m). In total, 54cm of the packer (from 44cm to 98cm with reference to top of packer) was milled out in 33.67 hours during four milling BHA runs. Refer to [Figure 2-1](#) for more details about the packer dimensions and milling interval.

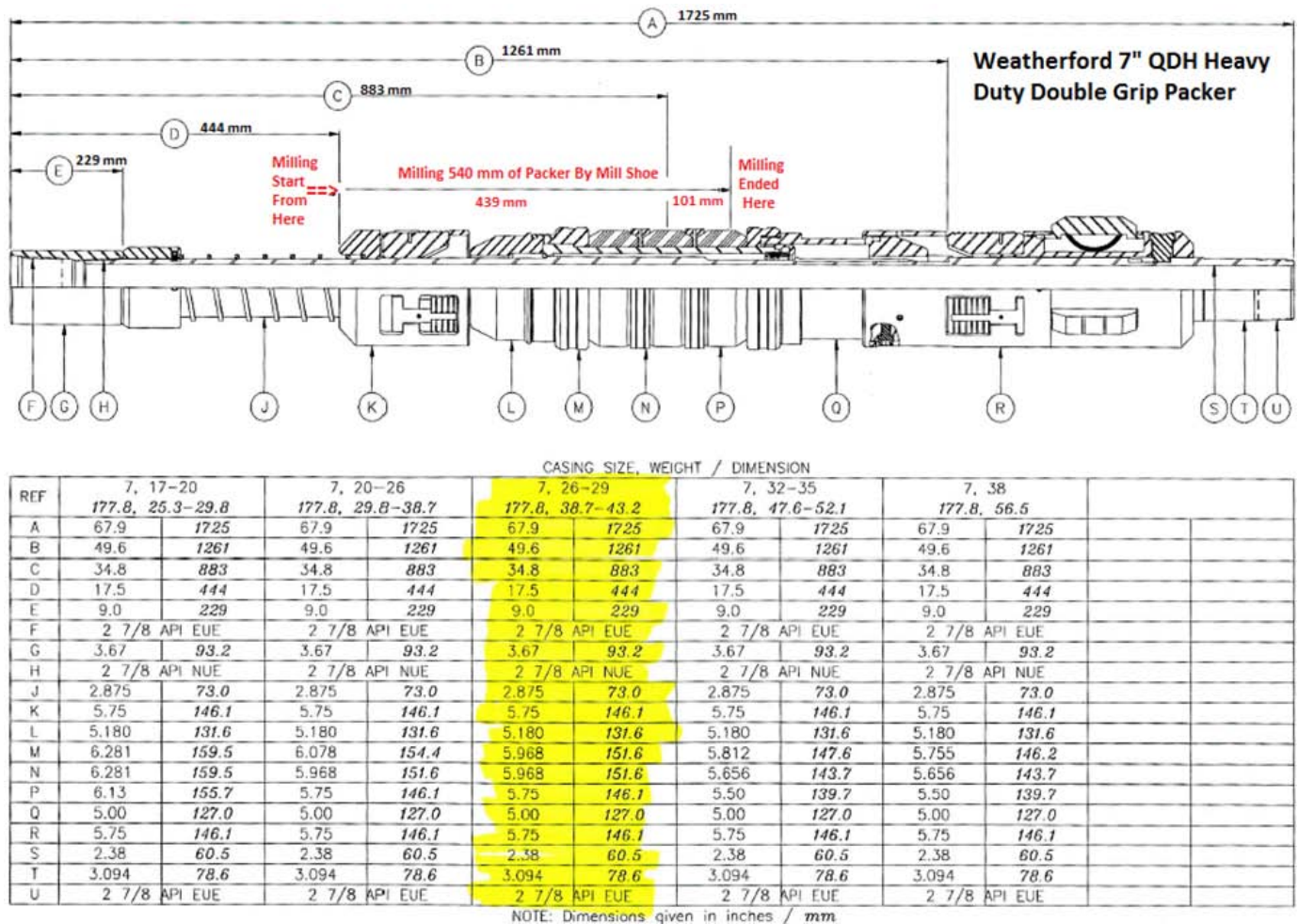


Figure 2-1 - QDH Packer Dimensions

Between each milling run, an overshot (fishing BHA) was run into the well and worked to unseat the packer by pulling, jarring and applying torque, however the packer was not released. Some black rubber pieces of packer rubber elements were found at surface at the end of fourth mill assembly, giving the confirmation of the total depth milled. Refer to Daily Workover Reports in Appendix C for more details about the fishing and milling operations.

On November 6th, 2013, with the 4th milling run in hole it was decided to suspend milling operation. The following observations were made:

- Marginal milling progress in 3rd and 4th runs.
- Encountered rotating rings of the packer elements under the mill shoe rotating with the mill preventing mill shoe from being on bottom.
- Severe damage to the mill shoe in third run (Figure 2-2).
- Damages to the drill collar body as scratches possibly due to the existence of some junk pieces of packer between drill collars and casing (Figure 2-2)



Figure A



Figure B



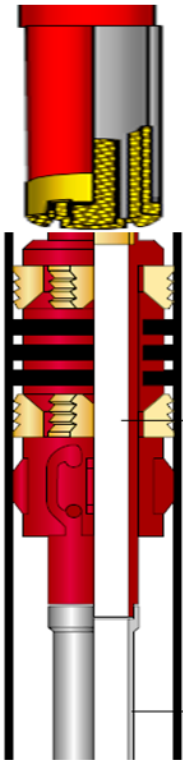
Figure C

Figure 2-2 - A: Washover Mill shoe before damage; B: After Damage; C: Drill Collar body scratches

As a result, the milling operation needs to be re-evaluated and a new programme including contingencies has to be designed. The milling packer operation is summarized in the following figure:

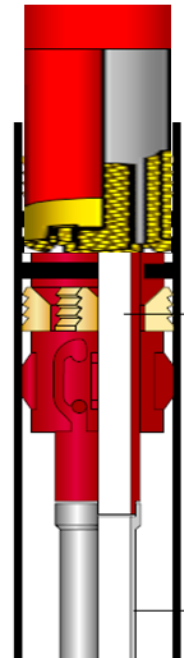
Milling Operation Summary

Before Start Milling



- TOF (Packer): 1237 m
- Total Packer Length: 167 cm
- Milling from 1237.44 m to 1237.98 m
- Total Progress: 54 cm from Slip Cage
- Milling Started at: Nov 2nd 2013 at 3:00 pm
- End of Milling Operation: Nov 6th 2013, 2:30 pm
- Total Milling Hours: 33.67 hrs
- No. Of Milling Runs: 4
 - 1st -3rd Run: Mill Shoe OD 6", ID 5"
 - 4th Run: Mill Shoe OD 6", ID 4.75"

After Milling



Red Brook#2 Milling Operation

6

Figure 2-3 - Packer Milling Operation Summary in Red Brook#2

Milling Progress is summarized in the following table:

Run#	Date In	Date out	Milling Hrs	Progress (cm)
1	01-Nov-13	02-Nov-13	4.5	20
2	03-Nov-13	04-Nov-13	16.25	34
3	05-Nov-13	05-Nov-13	6.92	0
4	05-Nov-13	05-Nov-13	6	0
Total =			33.67	54

Table 2-6 - Packer Milling Progress Table

Refer to Fishing and Milling BHA in Appendix G for more details.

2.17 WELL INFLUXES

No water or hydrocarbon influxes were observed during the workover operation.

2.18 FORMATION LEAK-OFF TESTS

No Leak off test was performed during well workover operation.

2.19 DEVIATION RECORD

The following wellbore survey summary was taken from the Red Brook#2 final well report for drilling operation.

- From 0 - 700 m KB the well inclination was below 3 degree.
- From 754 to 890 m the angle built from 3 to 7 degree.
- The angle was maintained between 7.0 to 9.5 degrees from 890 to 1963 m (TD).

2.20 SUSPENSION / ABANDONMENT PLUGS

Red Brook#2 was temporarily completed by running 73.0mm tubing to 1014.6m KB and secured by installing the Christmas tree on the wellhead and pressure tested same to 15,000 kPa for 15 min. The well may be re-entered in a later time to retrieve the completion packer (fish) and to resume the planned workover operation.

2.21 WELL SCHEMATIC

A schematic showing hole sizes and depths, casing sizes and depths, and cementing tops is included in Appendix H. The final installed tubing and wellhead configuration is also included.

2.22 FLUID SAMPLES

No formation fluid samples were recovered during workover operation.

3 GEOLOGICAL

3.1 GEOLOGICAL DESCRIPTION

As the Red Brook #2 workover program was unable collect any additional information about the Snakes Bight Reservoir intervals, no new geologic information was collected. Below is a brief summary of the intervals Investcan had planned to ultimately test as a result of the Red Brook #2 workover program.

3.2 PERFORATED INTERVALS

In the Red Brook #2 well, four intervals have been perforated from the Anguille Group. Prior to initially perforating the intervals, the joint venture of Investcan and Vulcan informally grouped the prospective intervals of the Anguille Group into intervals A, B, C and D. Intervals A, C and D were perforated. Interval A (perforated from 1755 to 1762 mKB) has essentially no effective porosity or permeability.

3.2.1 INTERVAL C (1558-1573 MKB)

Interval C consists of a medium grained arkosic to subarkosic sand. This interval underlies a limestone which acts as a top seal. *Figure 3-1* shows the log response of the perforated interval (1558 to 1573 mD). Petrophysical analysis of interval C indicates mean $k = 0.4$ mD, Mean $\Phi E = 10\%$ and Mean $S_w = 0.5$. Interval C tested gas at a rate of ~ 10 mcf/d and is the highest gas rate tested in the Bay St. George Basin.

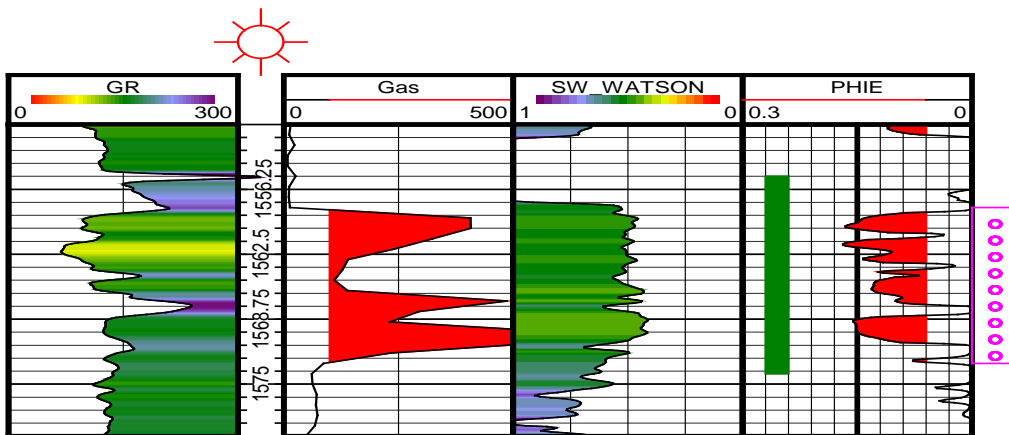


Figure 3-1 - Log response from perforated interval 1558 to 1573 meters (interval “C”)

3.2.2 INTERVAL D (1297-1311;1324-1334 MKB)

The lithology consists of subarkosic fine to medium grained sandstone Like Interval C, interval D is capped by a limestone. Petrophysical analysis indicates interval D has mean $k = 0.2$ mD, Mean $\Phi_i E = 8\%$ and Mean $S_w = 0.67\%$. Interval D flowed gas to surface at a rate < 1 mcf/d.

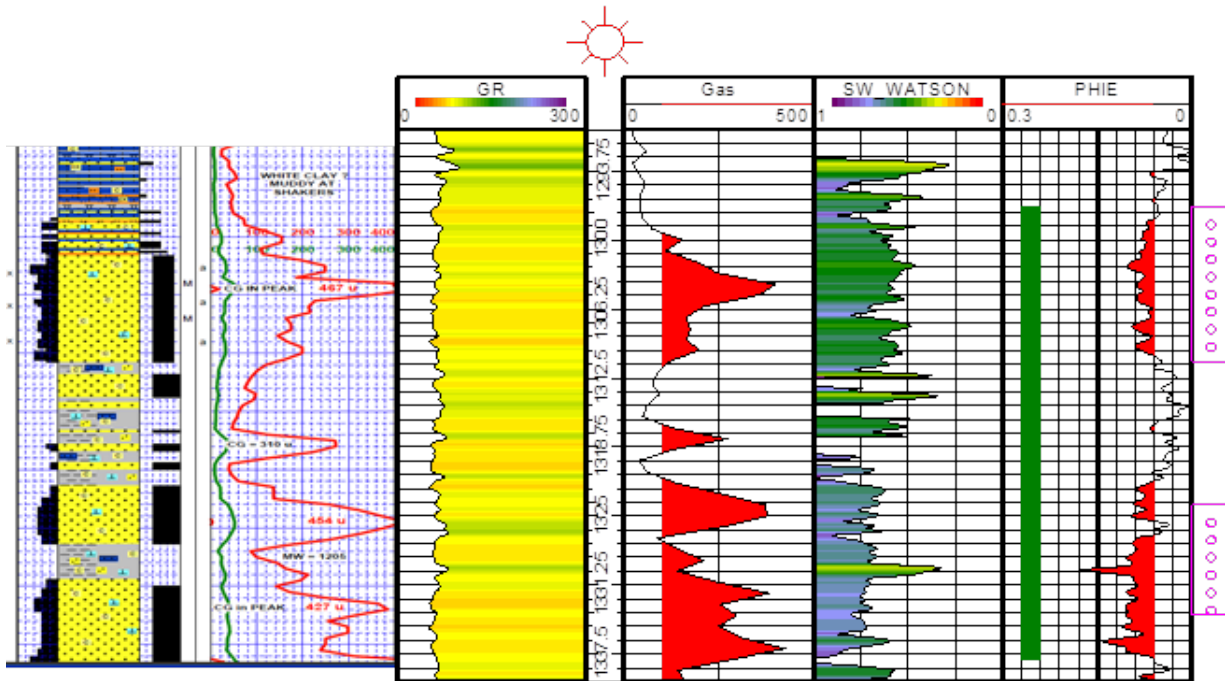


Figure 3-2 - Log response from perforated intervals 1297 to 1311 m and 1324 to 1334 meters of interval “D”

3.3 CORING

No core was taken.

3.4 HYDROCARBON SHOWS

No hydrocarbons were encountered during this operation.

3.5 GEOLOGIC TOPS

Depth Top m TVD KB	Depth Base m TVD KB	Formation	Predominant Lithology
0	51	Gravel	Unconsolidated sands and gravels
51	883	Codroy Group	Sandstone, Gypsum, Anhydrite and Salt
883	893	Ship Cove	Limestone
893	1133	Spout Falls	Sandstones
1133	1254	Friars Cove	Claystones/Sandstones
1254	1757	Snakes Bight	Sandstones, Shales, Limestones
1757	1909	Kennels Brook	Siltstones, Sandstones
1909	1948	Basement	Gneiss

Table 3-1 - Geologic Tops Summary

4 WELL EVALUATION PROGRAM

4.1 LOGGING PROGRAM

According to Red Brook#2 ARW, an electro hydraulic stimulation was planned using wireline together with Gamma Ray, to stimulate perforation intervals “C” and “D”. A Gamma Ray / CCL correlation log would have been run to set the new completion at depth. However, due to the unsuccessful fishing / milling of the completion packer, all logs have been postponed.

4.2 DRILL STEM TESTS

No drill stem tests were done.

4.3 FORMATION FLOW TESTING

No flow testing was done.

4.4 FORMATION STIMULATION

No stimulation was done in Red Brook#2.

End

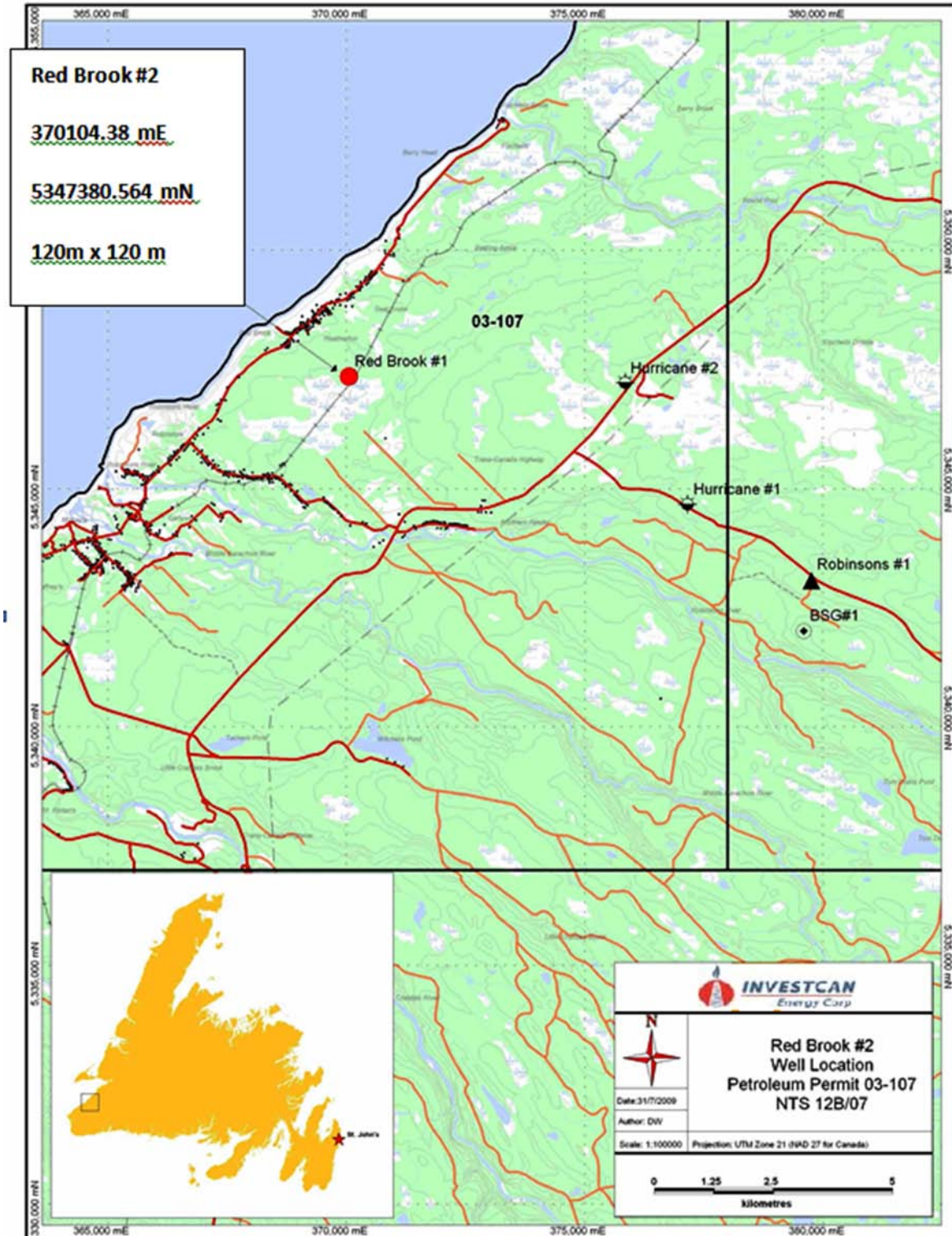
APPENDIX A : Maps & Layouts

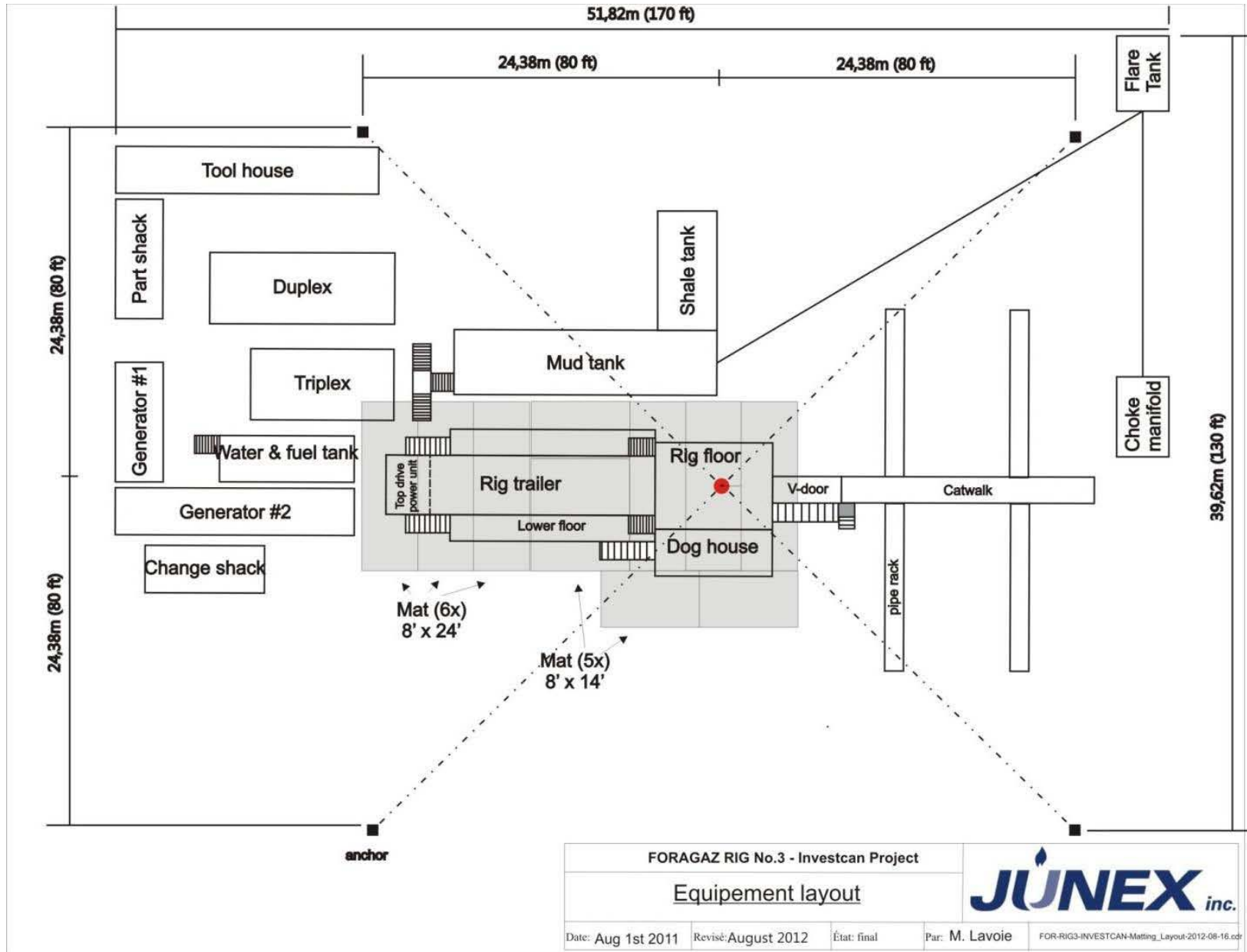
Number of pages : 3

Summary of the content: Several maps and layouts.

- Access map
- Site location
- Rig layout, from Junex Foragaz







APPENDIX B : Copies Of Government Approvals

Number of pages : 2

Summary of the content: This appendix contains the Government Approvals Required for Red Brook#2.



AUTHORITY TO RE-ENTER A WELL - APPLICATION

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act* and in compliance with section 24(1)(b) of the *Petroleum Drilling Regulations*,

Investcan Energy Corp as operator, hereby applies for Authority to Re-enter the Well known as Red Brook #2 using the equipment and procedures described in the program entitled Bay Saint George 03-107 Red Brook #2 ARW dated October 22, 2013 Permit, Licence or Lease to which this Program applies: EP 03-107

Area: <u>Bay Saint George</u>	CO-ORDINATES		
Field/Pool: <u>Bay Saint George</u>	UTM (NAD 27)		
Rig: <u>Foragaz Rig #3</u>	Long:	Northing:	<u>5347380 564</u>
Rig Type: <u>Guyed Telescopic Double</u>	Lat:	Easting:	<u>370104 38</u>
Drilling/Servicing Contractor: <u>Foragaz</u>	ELEVATION		DEPTH
Completion or Workover Fluid: <u>Brine</u>	<input checked="" type="checkbox"/> RT <input type="checkbox"/> KB <input type="checkbox"/> RF <u>4</u> m	M.D.:	<u>1963</u>
	G.L.: <u>57.1</u>	TVD:	<u>1948</u>
Purpose of Re-Entry: <input type="checkbox"/> Drilling <input type="checkbox"/> Completion <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Abandonment Other: _____			

CASING AND TUBULAR SUMMARY

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)
<u>339.7</u>	<u>71.4</u>	<u>H-40</u>	<u>218</u>
<u>244.5</u>	<u>64.7</u>	<u>L-80</u>	<u>329</u>
<u>244.5</u>	<u>53.6</u>	<u>J-55</u>	<u>883</u>
<u>177.8</u>	<u>38.7</u>	<u>J-55</u>	<u>1945</u>

Other Downhole Equipment: (attach a schematic) _____

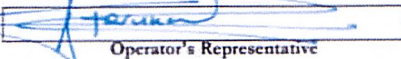
ESTIMATES		PRESSURES (kpa)		TARGET INTERVAL(S): (m)
Re-entry Date: <u>October 24, 2013</u>		BHSIP(@MPP): <u>12490</u>		<u>[1297-1311mKB]</u>
Days on Location: <u>11.5</u>		SITHP: <u>5000</u>		<u>[1324-1334mKB]</u>
Cost: <u>\$420,000</u>		STP: <u>0</u>		<u>[1558-1573mKB]</u>

RE-ENTRY/TESTING SUMMARY

Program Overview: Re-Entry of Red Brook #2, pull the existing completion, electro-stimulate the target interval and run a new completion to allow evaluation of all perforated intervals

Suspension or Abandonments: (Provide details and attach schematic) N/A

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

Signed: 
 Operator's Representative

Date: October 23, 2013

AUTHORIZATION

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

- This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
- Copies of all logs and well test data shall be submitted to the director by the operator promptly after their acquisition;
- Evidence of financial responsibility in a form satisfactory to the Director, shall be provided prior to commencing re-entry operations
- This ARW is for re-entry operations of the well originally approved under Drilling Program Approval No. DPA-2009-116-03
- No change in the well program hereby approved may be made unless it is first approved by the director in writing;
- This ARW approval shall, unless otherwise extended or terminated, expire upon the 04 day of June, 2014
- This Authorization is conditional on the operator commencing operations within 120 days of the effective Authorization date; and
- The operator shall comply with such other conditions as are appended to this Authorization.

Signed: 
 Director

Effective Date: October 23, 2013

Authority to Re-enter a Well No. 2013-131-03-01



RE-ENTRY PROGRAM APPROVAL - APPLICATION

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*(1), Investcan Energy Corp
as operator on behalf of Investcan Energy Corp, holding a
subsisting licence, permit or lease issued pursuant to the *Petroleum Regulations* (2), namely: Permit 03-107
(licence, permit, or lease #)
hereby applies for approval to conduct a re-entry program using the rig Foraqaz Rig #3 and
equipment and procedures described in the detailed program entitled Bay Saint George 03-107 Red Brook #2 ARW
Dated Oct 22, 2013

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

Signed: [Signature] Date Oct 23, 2013
Operator's Representative

APPROVAL

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

1. This Re-entry Program Approval shall, unless otherwise extended or terminated, expire upon the 04 day of June, 2014
2. This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
3. Evidence of financial responsibility, as required pursuant to Section 14 of the *Petroleum Drilling Regulations* (3), shall be provided by the operator to the Minister of Natural Resources;
4. The operator shall use the equipment and procedures described in the detailed program dated October 22, 2013 unless a change in the equipment or procedures is approved in writing by the Director; and
5. The operator shall comply with such other conditions as are appended to this Approval.

Signed: [Signature]
Director

Effective Date: October 23, 2013

Re-entry Program Approval No. 2013-131-03

(1) - R.S.N.L. 1990, c. P-10
(2) - CNR 1151/96
(3) CNR 1150/96

APPENDIX C : Daily Workover Reports

Number of pages : 17

Summary of the content: Daily Workover Reports for Red Brook#2
(Including 2 days rig move and 15 days
workover operation)



DAILY RIG MOVE REPORT N° 1

Date : **23/10/2013**
 Well : **Red Brook#2 WO**
 Rig : **Foragaz#3**
 Field: **Bay St. George**

Program : **Red Brook#2 – ARW** Spud Date : **12/10/2013** Well Licence # **EP 03-107**

Weather @ 8:00	Shows	RT Elevation	57.1	m	Tubing Pressure	5500	KPa	Daily Costs	\$44,800
Wind	Light	RT-GL		m	Casing Pressure	1550	KPa	Cum Costs	\$44,800
Temperature	8 Deg C	WH-GL		m	Casing size/Depth	178	1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1°	@ 1963m	Tubing Size/Depth	73	1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Rig move from Gobineau#1 to RedBrook#2. Spotting equipment on RedBrook#2

24 Hours Forecast: Complete rig move, rig up on RedBrook#2

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size		BOP Rating	
IEC	2	IEC	0	LTA	0 Days	Medivac	0	Last BOP Test	13/10/13
Rig	10	Rig	0	None to report				H ₂ S Level	0
Others	4	Others	0	Daily Safety Meeting: 7:00 hrs				CO ₂ Level	0
Total	16	Total	0	Loading out equipment				Gas Level	0
								Next BOP Test	27/10/13
								Trip Drill	
								Pit Drill	
								BOP Drill	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	F. Lyonnais	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	J. Boulay	Foragaz	Derrick hand	S. Drapeau	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand	J. Scott	Scotts Trans	Driver
M. Belanger	Foragaz	Operator	F. Collin	Foragaz	Lease hand	J. Legge	Scotts Trans	Driver
J. Beaulieu	Foragaz	Roughneck	M. Chretien	Foragaz	Driller	S. Spark	Sparks Trans	Operator
						F. Summers	CB Fab	Operator

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on day light hrs.
7:00	7:30	0:30	4 foragaz crew arrive onsite (other 4 on training course). Sparkes, Corner Brook Fab, Scotts Transport onsite. Safety Meeting.
7:30			Rig up derrick to load onto Foragaz winch truck.
8:00			Load up Scotts #1 & #2 trucks with Sparkes Boom truck.
10:30			Foragaz and Scotts depart Site for RedBrook#2.
11:00			Weatherford X-Over subs arrive onsite.
11:30			Scotts transport 1 & 2 and Sparkes arrive back at Gobineau #1.
12:30			Scotts #1 departs site for RedBrook#2.
12:45			Scotts #2 Sparkes departs site for RedBrook#2.
13:00			Foragaz winch truck returns to Gobineau#1 wellsite.
14:00			Foragaz wch truck departs site for RedBrook#2.
14:30			Scotts 1 & 2 arrive back at site.
14:45			Sparkes arrive on RedBrook#2 wellsite
15:00			Foragaz winch truck returns to site Gobineau#1
15:30	15:45	8:15	Scotts #1 & #2, Sparkes depart site. Foragaz and CB Fab crane depart site for RB#2 to start assembling rig.
15:45	19:00	3:15	Rig up rig on RB#1. Foragaz crew that's was training arrive @ 17:00
19:00	0:00	5:00	Wait on day light hrs.
Total Hours =			24.00
Remarks: Rig/up slowed down due to half of the crew in training			

RIG TIME (operation duration in hours)

Rig Up/Dn	3.5	Tubing Running		Cementing		Stimulation		Rig move	8.25
Reaming		Completion		WOC		Testing / Flow Back		Rig Service	
Milling		Plug Back		Nipple U/D BOP		Safety/BOP	0.25	Slip and Cut	
Circ./Cond.		DST		Press test BOP's		Wait on Daylight	12	Rig Repair	
Tripping		Wireline Logging		Kill Well		Set Packer		TOTAL	24
NU/ Tree		Squeeze Cement		Slickline				DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA: N° 1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA: Tubing N° 2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]		
1						1							
2						2							
3						3							
4						4							
5						5							
6						6							
7						7							
8						8							
9						9							
10						10							
0					0		0					0	

Remarks:



DAILY WORKOVER REPORT N° 2

Date : 24/10/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : Well Licence # EP 03-107

Weather @ 8:00	Showers	RT Elevation	57.1 m	Tubing Pressure	4026 KPa	Daily Costs	\$6,300
Wind	Light	RT-GL	m	Casing Pressure	1551 KPa	Cum Costs	\$51,000
Temperature	8 Deg C	WH-GL	m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Final Rig Move load from Gobineau#1 to RedBrook#2. Rig up on RedBrook#2 well.

24 Hours Forecast: Rig up on RedBrook#2 Well. Install Flare tank and piping. Messure RT-GL and WH-GL. Install sucker rods, pump, DH gauges, pump jack and testing package on Gobineau#1.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC	2	IEC	0	LTA	0 Days	Medivac	0	Last BOP Test	26/10/13
Rig	10	Rig	0	None to report				H ₂ S Level	0
Others	4	Others	0	Daily Safety Meeting: 7:00 hrs				CO ₂ Level	0
Total	16	Total	0	Hand singles for crane and boom truck				Gas Level	0
								Next BOP Test	9/11/13
								Trip Drill	
								Pit Drill	
								BOP Drill	

Name	Company	Position	Name	Company	Position	Name	Company	Position	
Travis Young	IEC	DSV	F. Lyonnais	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand	
Dave White	HSE	Safety officer	J. Boulay	Foragaz	Derrick hand	S. Drapeau	Foragaz	Roughneck	
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand	J. Scott	Scotts Trans	Driver	
M. Belanger	Foragaz	Operator	F. Collin	Foragaz	Lease hand	J. Legge	Scotts Trans	Driver	
J. Beaulieu	Foragaz	Roughneck	M. Chretien	Foragaz	Driller	S. Spark	Sparks Trans	Operator	
								F. Summers	CB Fab
								Operator	

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on day light hrs. Go to Corner Brook to get on/off tool made for setting BPV on RB #2
7:00			4 Foragaz crew arrive other 4 on training course. Sparkes, Corner Brook Fab, Scotts Transport on location. Safety Meeting. Rig up to load onto Foragaz winch truck with crane. Load up Scotts #1 & 2 trucks with Sparkes Boom Truck. Foragaz winch truck and Scotts depart Gobineau#1 wellite for RB#2. Simons holding arrive to pick up security trailer and deliver to RB#2. Scotts transport 1 & 2 and Sparkes arrive back at Gobineau#1. Scotts #1 departs site for RB#2. Scotts #2 Sparkes departs site for RB#2. Foragaz returns to site Gobineau#1. Foragaz departs site for RB#2. Scotts 1 arrive back at Gobineau#1. Sparkes arrive onsite at Gobineau#1. Foragaz returns to site Gobineau#1 to pick up trailer. Dig up trailer septic tank. Scotts #1 & Sparkes depart site for RB #2. Foragaz winch truck and Scotts 2 depart site for RB #2 with last loads for RB#2
13:00	19:00	6:00	Rig up rig on RB#1. Foragaz crew previously in training arrive @ 17:00. Release CB Fab Crane and Scotts Transport
19:00	0:00	5:00	Wait on day light hrs.
Total Hours =		24.00	Remarks: Rig/up slowed down due to half of the crew in training

RIG TIME (operation duration in hours)

Rig Up/Dn	6	Tubing Running		Cementing		Stimulation		Rig move	5.75
Reaming		Completion		WOC		Testing / Flow Back		Rig Service	
Milling		Plug Back		Nipple U/D BOP		Safety/BOP	0.25	Slip and Cut	
Circ./Cond.		DST		Press test BOP's		Wait on Daylight	12	Rig Repair	
Tripping		Wireline Logging		Kill Well		Set Packer		TOTAL	24
NU/ Tree		Squeeze Cement		Slickline				DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA: Tubing	N°	2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
0							0		0						

Remarks:



DAILY RIG MOVE REPORT N° 3

Date : 25/10/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : Well Licence # EP 03-107

Weather @ 8:00	Showers	RT Elevation	57.1 m	Tubing Pressure	4026 KPa	Daily Costs	\$7,300
Wind	Strong	RT-GL	4.12 m	Casing Pressure	1551 KPa	Cum Costs	\$58,000
Temperature	5 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Rig up rig on RedBrook#2. Pick up flare tank and piping from Stephenville yard. Install rig anchors and pull test.

24 Hours Forecast: Tie in flare tank, tie in rig to anchors, bleed down well install BPV, N/D X-Mas tree, N/U BOP.
 Install sucker rods, pump, pump Jack and testing package.

POB/ Safety / BOP SUMMARY

Workers on site	Workers Injured	HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC 2	IEC 0	LTA 0 Days	Medivac 0	Last BOP Test	27/10/13	Next BOP Test	10/11/13
Rig 10	Rig 0	None to report		H ₂ S Level	0	Trip Drill	
Others 1	Others 0	Daily Safety Meeting: 7:00 hrs		CO ₂ Level	0	Pit Drill	
Total 13	Total 0	raising derrick		Gas Level	0	BOP Drill	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	F. Lyonnais	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	J. Boulay	Foragaz	Derrick hand	S. Drapeau	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand	S. Spark	Sparkes Trans	Operator
M. Belanger	Foragaz	Operator	F. Collin	Foragaz	Lease hand			
			M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	Roughneck			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on day light hours.
7:00			Foragaz crew arrive onsite, Sparkes as well. Safety Meeting.
7:30			Spot rig equipment around rig, spot Investcan container.
10:00			Foragaz winch truck and Sparkes to Gobineau#1 site. Pick up 2-3/8" tubing and 4-1/2" liner, send to Stephenville yard.
12:00			Foragaz winch truck and Sparkes truck depart Gobineau#1 for Stephenville yard to pick up flare tank, degasser, piping, and KCl.
14:00			Foragaz truck to Gobineau#1 to pick up last material.
16:00			Sparkes boom truck to return from Stephenville yard with degasser. Install degasser and rig floor tools.
16:30			Foragaz winch truck returns to site with flare tank and backhoe. Unload backhoe and flare tank.
			Install rig anchors, pull test with Sparkes Boom truck to 18000lbs each.
			Tally Weatherford completion string.
			Install pipe racks, catwalk, Vdoor ramp, stairs, mud tank piping, mud tank pit volume probes, raise derrick.
18:30	18:30	11:30	Install generator set to rig. Install escape line anchor, refuel rig tank from delivery tank.
18:30	19:00	0:30	Sparkes truck depart RedBrook#2. Foragaz crews depart site.
19:00	0:00	5:00	Wait on daylight hours.
Total Hours =		24.00	Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	11.75	Tubing Running		Cementing		Stimulation		Rig move	
Reaming		Completion		WOC		Testing / Flow Back		Rig Service	
Milling		Plug Back		Nipple U/D BOP		Safety/BOP	0.25	Slip and Cut	
Circ./Cond.		DST		Press test BOP's		Wait on Daylight	12	Rig Repair	
Tripping		Wireline Logging		Kill Well		Set Packer		TOTAL	24
NU/ Tree		Squeeze Cement		Slickline				DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
0							0		0						

Remarks:



DAILY WORKOVER REPORT N° 4

Date : 26/10/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : Well Licence # EP 03-107

Weather @ 8:00	Showers	RT Elevation	57.1 m	Tubing Pressure	4000 KPa	Daily Costs	\$5,300
Wind	Light	RT-GL	4.12 m	Casing Pressure	1550 KPa	Cum Costs	\$63,800
Temperature	5 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Day#4 R/U on RedBrook#2. Install flare tank and lines. Mix 2% KCL, Hook up rig anchors, install panel and wiring for trailers. Install septic tank, rig in weight indicator, install man line anchor, tie in to poorboy degasser. Gobineau#1: SRP, DH gauges, rods etc run in hole.

24 Hours Forecast: Hook up choke to wellhead. Bleed off well, attempt to kill well with 2% KCL, attempt to install dual way BPV. Nipple up BOPs. Gobineau#1: finish pump jack installation, testing equipment, and flow back Gobineau#1 well.

POB/ Safety / BOP SUMMARY

Workers on site	Workers Injured	HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC 2	IEC 0	LTA 0 Days	Medivac 0	Last BOP Test	13/10/13	Next BOP Test	27/10/13
Rig 10	Rig 0	Minor Incident: no medical attention required.		H ₂ S Level	0	Trip Drill	
Others 3	Others 0	Daily Safety Meeting: 7:00 hrs		CO ₂ Level	0	Pit Drill	
Total 15	Total 0	Heavy lifting		Gas Level	0	BOP Drill	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	F. Lyonnais	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	J. Boulay	Foragaz	Derrick hand	S. Drapeau	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand	S. Spark	Sparkes Trans	Operator
M. Belanger	Foragaz	Operator	F. Collin	Foragaz	Lease hand	D. Lee	SG Excavation	Operator
			M. Chretien	Foragaz	Driller	G.B	SG Excavation	Labourer
			J. Beaulieu	Foragaz	Roughneck			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on day light hours.
7:00	7:30	0:30	Foragaz crew arrive onsite. Safety Meeting.
7:30			Continue Rig Up (day#4), instilling flare tank and lines.
9:00			Foragaz winch truck and loader went to Gobineau #1 retrieve rig mats and bring to Robinsons #1.
12:00			Start mixing 2% KCL (10m3). Start installing septic and man line anchor. Hydraulic leak on Backhoe.
16:30			Sparkes Boom truck arrived on Gobineau #1 wellsite, loaded out DH Pump, polish rod, stuffing box, sucker rod pups. Start running DH pump and sucker rods. Building of the sub structure for pump jack.
19:00	19:00	11:30	Plumb up mud tank and water tank. Hook up trailers to Rig Gen set.
	0:00	5:00	Foragaz worker dropped pipe onto his foot, no medical attention needed. Safety Meeting (talk with crew about incident). Level out pipe racks and Place tubing on pipe racks. Finish mixing 2% KCL (30x40kg bags and 40x20kg bags). Foragaz crews depart site. Foragaz crew member on security watch.
			Wait on daylight hours.
Total Hours =		24.00	Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	11.25	Tubing Running		Cementing		Stimulation		Rig move	0
Reaming		Completion		WOC		Testing / Flow Back		Rig Service	
Milling		Plug Back		Nipple U/D BOP		Safety/BOP	0.75	Slip and Cut	
Circ./Cond.		DST		Press test BOP's		Wait on Daylight	12	Rig Repair	
Tripping		Wireline Logging		Kill Well		Set Packer		TOTAL	24
NU/ Tree		Squeeze Cement		Slickline				DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
0							0		0						

Remarks:



DAILY WORKOVER REPORT N° 5

Date : 27/10/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : Well Licence # EP 03-107

Weather @ 8:00	Rain	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$12,000
Wind	Mod	RT-GL	4.12 m	Casing Pressure	1550 KPa	Cum Costs	\$76,000
Temperature	5 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Bleed of well to flare tank, attempt to kill well with 2% KCL (1013kg/m3). Install 2 7/8 212x1 BPV.

24 Hours Forecast: N/D X-mas Tree, N/U BOP's. Pressure test pipe and annular. Latch onto tubing, unset packer and retrieve completion.
 Gobineau#1: finish pump jack installation, testing equipment, and flow back Gobineau#1 well.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size	BOP Rating	
IEC	2	IEC	0	LTA	0 Days	228.6	20,700	
Rig	10	Rig	0	Medivac	0	Last BOP Test	28/10/13	
Others		Others	0	Daily Safety Meeting:	7:00 hrs	H ₂ S Level	0	
Total	12	Total	0	Bleeding down well to flare stack		CO ₂ Level	0	
						Gas Level	0	
							Next BOP Test	11/11/13
							Trip Drill	
							Pit Drill	
							BOP Drill	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	F. Lyonnais	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	J. Boulay	Foragaz	Derrick hand	S. Drapeau	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
M. Belanger	Foragaz	Operator	F. Collin	Foragaz	Lease hand			
			M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	Roughneck			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on day light hours.
7:00	7:30	0:30	Foragaz crew arrive onsite. Safety Meeting.
7:30	15:00	7:30	Attach kill line and bleed off line to well head.
8:30			Safety meeting.
8:45			Bleed off well to flare tank (700psi). Prepare all tools to N/D Xmas tree. Tally 50% of tubing.
9:00			Bleed down to 0 psi. Well in observation for 15 min.
9:15			Build up pressure 400psi. Bleed down to 0psi, pump down 0.9m3 of 2% KCL on tubing, shut down pump.
10:00			Pressure settled out to 400psi Bleed down to 0psi pump down 0.75m3 2% KCL, shut down pump.
10:30			Pressure settled out to 350psi Bleed down to 0psi pump down 0.75m3 2% KCL, shut down pump.
11:00			Pressure settled out to 300psi Bleed down to 0psi pump down 0.60m3 2% KCL, shut down pump.
12:00			Pressure settled out at 250psi Bleed down to 0psi pump down 0.50m3 2% KCL, shut down pump.
12:30			Pressure settled out at 200psi Bleed down to 0psi pump down 0.50m3 2% KCL, shut down pump.
13:30			Pressure settled out at 100psi Bleed down to 0psi pump down 0.25m3 2% KCL, shut down pump.
14:00			Pressure settled out at 50psi Bleed down to 0psi pump down 0.10m3 2% KCL, shut down pump.
15:00	16:30	1:30	Bleed off well to 0 psi. Shut in let build up for 15 min: 25psi. Bleed off to 0psi, 0psi PBU in 15 min. Well killed.
16:30	17:00	0:30	Rig down kill line and bleed of line. Prepare to run in 3x2 BPV.
17:00	17:30	0:30	RIH with 3x2 BPV: not seating in. Pull out to check plug, all ok, RIH again: still not seating. POOH to try 212x2 BPV.
17:30	18:00	0:30	RIH with 212 x 2 BPV, set BPV, come off BPV with setting tool, L/D setting tool.
18:00	19:00	1:00	Remove all bleed down equipment of Xmas tree prepare for N/D tree.
19:00	0:00	5:00	Wait on day light hours.
Total Hours =	24.00	Remarks:	

RIG TIME (operation duration in hours)

Rig Up/Dn	2.5	Tubing Running		Cementing		Stimulation		Rig move	0
Reaming		Completion		WOC		Testing / Flow Back		Rig Service	0.5
Milling		Plug Back		Nipple U/D BOP		Safety/BOP	0.5	Slip and Cut	
Circ./Cond.		DST		Press test BOP's		Wait on Daylight	12	Rig Repair	
Tripping		Wireline Logging		Kill Well	7.5	Set Packer		TOTAL	24
NU/ Tree		Squeeze Cement		Slickline		Set BPV	1	DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
						0	0							0	0

Remarks:



DAILY WORKOVER REPORT N° 6

Date : 28/10/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	Rain	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$11,000
Wind	Mod	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$89,000
Temperature	5 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: N/D X-mas Tree, N/U BOP's. Pressure test pipe rams, HCR valves and annular. M/U test plug to test Blind rams.
 Gobineau#1: weld up pump jack base, install motor, install bridal. R/U Holland tester equipment, hook up Gen set to motor, test run and adjust pump.

24 Hours Forecast: Pressure test Blind rams, remove test plug, Latch onto tubing, pull existing completion. Run scraper.
 Gobineau#1: take morning echometer reading, Start up pump jack and run tester equipment.

POB/ Safety / BOP SUMMARY

Workers on site	Workers Injured	HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC 2	IEC 0	LTA 0 Days	Medivac 0	Last BOP Test	28/10/13	Next BOP Test	11/11/13
Rig 10	Rig 0	Daily Safety Meeting: 7:00 hrs		H ₂ S Level	0	Trip Drill	
Others 1	Others 0	N/D X-MAS TREE N/U BOP's		CO ₂ Level	0	Pit Drill	
Total 13	Total 0			Gas Level	0	BOP Drill	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	F. Lyonnais	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	J. Boulay	Foragaz	Derrick hand	S. Drapeau	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand	D.Holland	Holland testers	Service Rep
M. Belanger	Foragaz	Operator	F. Collin	Foragaz	Lease hand			
			M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	Roughneck			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on day light hours.
7:00	7:15	0:15	Foragaz crew arrive onsite. Safety Meeting.
7:15	8:00	0:45	Check wellhead for pressure: 0 Kpa
8:00			Start nipple down X-Mas tree. Send 2 personal over to Gobineau #1 to complete Pump jack set up with Holland testers.
10:00			Complete N/D X-Mas tree and laydown on rig mat on lease.
10:15			Start N/U BOP stack.
15:00			Complete NU BOP Stack. Remove one way BPV, M/U BOP plug to test blind rams.
16:00	16:05	8:05	Rig up pressure test equipment. Start pressure test BOP Stack.
16:05	16:40	0:35	Start Low test 1500kPa on 2 7/8 tubing rams pressure test leaking 900kPa in 5 min. Bleed off retest to 1500kPa for 15min (OK).
16:40	17:30	0:50	Low test 1500kPa on annular preventer, bled down to 1000kPa. Pump back up to 1500kPa after 15 min 1490kPa.
17:30	18:00	0:30	Low pressure test on HCR Valves to 1500kPa, bled down to 950kPa. Pump back up to 1500kPa: 1495kPa after 15mins
18:00	18:40	0:40	High pressure test on tubing rams 15000kPa, bled down to 12000kPa in 5min. Pump back up to 15000kPa: 14850kPa after 15mins
18:40	19:15	0:35	High pressure test on annular 10350kPa, bled down to 9050kPa in 5min. Pump back up to 13500kPa: 13300kPa after 15min.
19:15	19:45	0:30	High pressure HCR Valves and Kill line valves to 15000kPa bled down to 14000kPa. Pressure back up to 15000kPa: 14650kPa after 15min.
19:45	0:00	4:15	Wait on day light hours. Install WH plug to test blind rams in AM.

Total Hours = 24.00 **Remarks:** 4.10 m3 KCL pumped. Pipe rams, annular and HCR valve had to be worked a few times to seal.

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	Cementing	Stimulation	Rig move
Reaming	Completion	WOC	Testing / Flow Back	Rig Service
Milling	Plug Back	Nipple U/D BOP 8	Safety/BOP 0.25	Slip and Cut
Circ./Cond.	DST	Press test BOP's 4.75	Wait on Daylight 11	Rig Repair
Tripping	Wireline Logging	Kill Well	Set Packer	TOTAL
NU/ Tree	Squeeze Cement	Slickline	Set BPV	DOWNTIME
				24
				0

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
						0	0							0	0

Remarks:



DAILY WORKOVER REPORT N° 7

Date : **29/10/2013**
 Well : **Red Brook#2 WO**
 Rig : **Foragaz#3**
 Field: **Bay St. George**

Program : **Red Brook#2 – ARW** Spud Date : **28/10/2013** Well Licence # **EP 03-107**

Weather @ 8:00	Rain/snow/hail	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$12,000
Wind	Mod	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$98,000
Temperature	2 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Install WH plug, pressure test blind rams, remove test plug. Latch onto tubing attempt to pull completion with QDH packer.
 Gobineau#1: Test day#1.

24 Hours Forecast: Attempt to work packer with 2-7/8" tubing while bringing on drill pipe, jars. Work on packer with jars.
 Gobineau#1: Test day#2.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC	2	IEC	0	LTA	0 Days	Medivac	0	Last BOP Test	28/10/13
Rig	10	Rig	0	Daily Safety Meeting: 7:00 hrs				H ₂ S Level	0
Others	1	Others	0	Weather changes / Unseating packer				CO ₂ Level	0
Total	13	Total	0					Gas Level	0
								Next BOP Test	11/11/13
								Trip Drill	
								Pit Drill	
								BOP Drill	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	F. Lyonnais	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	J. Boulay	Foragaz	Derrick hand	S. Drapeau	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand	D. Holland	Holland testers	Service Rep
M. Belanger	Foragaz	Operator	F. Collin	Foragaz	Lease hand			
			M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	Roughneck			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on day light hours.
7:00	7:15	0:15	Foragaz crew arrive onsite. Safety Meeting.
7:15	7:20	0:05	Check wellhead for pressure 0KPa. Install WH plug to test blind rams.
7:20	7:45	0:25	Low test on blind rams 1500kPa, bled down to 1350kPa in 6min, pressure back up to 1500kPa: 1485kPa after 15min.
7:45	8:10	0:25	High pressure test on Blind rams 15000kPa bled down to 12500kPa in 8min, pump back up to 15000kPa: 14870kPa after 15min.
8:10	8:45	0:35	Rig out pressure test equipment and remove test plug. Bleed of annulus to 0kPa.
8:45	10:30	1:45	R/U packer pulling joint land into dog nut, install stabbing valve. (One bolt lost in WH and retrieved with magnet.)
10:30	10:45	0:15	Pull tubing hanger free string to 27000lbs. Safety meeting.
10:45	11:30	0:45	Compress 20000lbs on packer turn to right with 36" pipe wrenches hold torque pull tubing while holding torque to 25000lbs.
11:30	12:30	1:00	Wait 30mins for allowed time to equalize. Pull to 30000lbs, no release of packer. Rig service. Shut down gen set and check oil.
12:30	13:30	1:00	Compress 20000lbs on packer turn to right with 36" pipe wrenches hold torque. Pull tubing while holding torque to 25000lbs.
13:30	13:50	0:20	Wait 30mins for allowed time to equalize. Pull to 35000lbs: no release of packer. Conf call with Brian Hilhorst from Weatherford.
13:50	17:30	3:40	Told to compress packer find natural weight turn right then pull to 35000lbs. No release after 15mins. Continue working back and forth as per Weatherford instructions. Keep pulling more weight (up to 60000lbs).
17:30	18:30	1:00	Increase in torque, no success.
18:30	19:15	0:45	Call Weatherford again: inform us to pull to 60000lbs and let sit for about 0.5 hr. No release.
19:15	0:00	4:45	Pull 60000lbs, set hold for over night with stabbing valve closed and night security (Foragaz driller) watching for any changes.
Total Hours =		24.00	Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	Cementing	Stimulation	Rig move
Reaming	Completion	WOC	Testing / Flow Back	Rig Service
Milling	Plug Back	Nipple U/D BOP	Safety/BOP	Slip and Cut
Circ./Cond.	DST	Press test BOP's	Wait on Daylight	Rig Repair
Tripping	Wireline Logging	Kill Well	Set Packer	TOTAL
NU/ Tree	Squeeze Cement	Slickline	Pull packer	DOWNTIME
				0.5
				0.5
				11.25
				24
				0

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
0							0		0						

Remarks:



DAILY WORKOVER REPORT N° 8

Date : 30/10/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	Rain/snow/hail	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$15,000
Wind	light	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$110,000
Temperature	3 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Attempt to pull packer with tubing while waiting on drilling jars. Unlatch off packer, POOH, RIH with jars and 2-7/8" tubing.

24 Hours Forecast: POOH drilling jars and tubing, rig up torque tube, RIH with DP and make up fishing BHA.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size		BOP Rating	
IEC	2	IEC	0	LTA	0 Days	Medivac	0	Last BOP Test	28/10/13
Rig	9	Rig	0	Daily Safety Meeting: 7:00 hrs		CO ₂ Level		0	Next BOP Test
Others	1	Others	0	Weather changes / Unseating packer		Gas Level		0	Trip Drill
Total	12	Total	0					0	Pit Drill
								0	BOP Drill
									20,700
									11/11/13

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	P. Brochu	Foragaz	Motors
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand	D. Holland	Holland testers	Service Rep
			F. Collin	Foragaz	Roughneck			
			M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	Leasehand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on day light hours.
7:00	7:15	0:15	Foragaz crew arrive onsite. Safety Meeting.
7:15	8:00	0:45	Let torque off pipe attempt to pull packer.
8:00	9:00	1:00	Put 3 turns on tubing when in release mode. Pull 40000lbs no release.
9:00	9:30	0:30	Put 4 turns on tubing when in release mode. Pull 40000lbs no release.
9:30	11:30	2:00	Put 5 turns on tubing when in release mode. Pull 40000lbs no release. Unlatch off packer wash on top, latch back on packer.
11:30	12:15	0:45	Put 6 turns on tubing when in release mode. Pull 40000lbs: no release.
12:15	14:30	2:15	Unlatch off packer, POOH rack back tubing. Rig Service: change jaws on tubing spinner.
14:30	16:00	1:30	Make up jars on 2-7/8" tubing string.
16:00	18:30	2:30	RIH with drilling jars on tubing
18:30	22:00	3:30	Attempt to pull packer with drilling jars . Jars will not fire due to not enough weight.
22:00	0:00	2:00	POOH and rack 2-7/8" tubing in the derrick.

Total Hours = 24.00 Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	Cementing	Stimulation	Rig move	0
Reaming	Completion	WOC	Testing / Flow Back	Rig Service	0.25
Milling	Plug Back	Nipple U/D BOP	Safety/BOP	Slip and Cut	
Circ./Cond.	DST	Press test BOP's	Wait on Daylight	Rig Repair	
Tripping	Wireline Logging	Kill Well	Pull Packer	TOTAL	24
NU/ Tree	Squeeze Cement	Slickline	Fishing	DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1	Weatherford on/off tool	1	62	146.1	0.51		1		2				
2	X-Over (3.5 IF to 2 7/8 EUE)				0.24		2		3				
3	Drilling Jars (Foragaz)		127	57	6.52		3		4				
4	X-Over (2 7/8 EUE to 3 1/2 IF)				0.24		4		5				
5	2-7/8" Tubing		62	73	1233		5		6				
6							6		7				
7							7		8				
8							8		9				
9							9		10				
10							10						
1240.51						0	0						0

Remarks:



DAILY WORKOVER REPORT N° 9

Date : 31/10/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	Rain/snow	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$19,500
Wind	light	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$130,000
Temperature	1 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: POOH with jars and tubing, rig up drill pipe handling equipment and make up fishing BHA. RIH, latch on packer, jarring.

24 Hours Forecast: Work packer with fishing BHA (Weatherford). POOH, run back in with milling BHA.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC	2	IEC	0	LTA	0 Days	Last BOP Test	28/10/13	Next BOP Test	11/11/13
Rig	9	Rig	0	Medevac	0	H ₂ S Level	0	Trip Drill	
Others	1	Others	0	Daily Safety Meeting: 7:00 hrs.		CO ₂ Level	0	Pit Drill	
Total	12	Total	0	Tripping in and out of hole. Jarring operations.		Gas Level	0	BOP Drill	31/10/2013

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	P. Brochu	Foragaz	Motor hand
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand	D. Holland	Holland Testers	Service Rep
S. Janes	Weatherford	Fishing Supervisor	F. Collin	Foragaz	roughneck			
			M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	Leasehand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	1:30	1:30	POOH with tubing and jars.
1:30	3:00	1:30	Rig in drill pipe handling equipment.
3:00	7:00	4:00	Pick up drill pipe, RIH with drilling jars and on/off tool. Go to Stephenville Yard, P/U DCs and additional DPs. Safety meeting.
7:00	10:00	3:00	POOH with drill pipe rack back.
10:00	13:00	3:00	Weatherford fishing tools arrive on location, start rigging up tools. DC and DP arrive at site. MU rest of fishing BHA.
13:00	13:30	0:30	Slip and cut.
13:30	17:30	4:00	R/U and RIH with fishing BHA. Safety meeting.
17:30	20:00	2:30	Latch on packer. Start jarring operations: Jar 10 x 120,000lbs, over pull to 140,000lbs after each 5 jarring attempts. Jar 20 x 140,000lbs, over pull to 160,000lbs after each 5 jarring attempts. Jar 30 x 150,000lbs, over pull to 170,000lbs after each 5 jarring attempts. Bump 3 times down. Stop jarring operations let rig brakes cool down.
20:00	20:30	0:30	Start jarring operations. Jar 2 x 125,000lbs. KCl fluid start pouring out of DP. Commence BOP Drill, bring joint down to rig floor shut Stabbing valve.
20:30	22:00	1:30	Install hose on top stabbing valve, bleed down to rig tank. Pipe U-Tubing with casing. Monitor fluid to rig tank. BOP Drill: 3min.
22:00	0:00	2:00	Monitor inflow from DP to mud tanks before commencing jarring operations. Continue jarring operations.
Total Hours =		24.00	Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	Cementing	Stimulation	Rig move
Reaming	Completion	WOC	Testing / Flow Back	Rig Service
Milling	Plug Back	Nipple U/D BOP	Safety/BOP	Slip and Cut
Circ./Cond.	DST	Press test BOP's	Wait on Daylight	Rig Repair
Tripping	Wireline Logging	Kill Well	M/U	TOTAL
NU/ Tree	Squeeze Cement	Slickline	Fishing	DOWNTIME
				0

BOTTOM HOLE ASSEMBLY

#	BHA: Fishing (Weatherford)	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1	overshot w/ext	1	4.75	5.75	1.81		1		2				
2	fishing bumper sub	2	2.5	4.75	1.82		2		3				
3	fishing jar	3	2	4.75	3.34		3		4				
4	DC's	4	2.5	4.75	25.99		4		5				
5	itensifer	5	2	4.75	3.21		5		6				
6	DP TO surface	6	2.5	4	1205.6		6		7				
7		7					7		8				
8		8					8		9				
9		9					9		10				
10		10					10						
1241.77						0	0						0

Remarks:



DAILY WORKOVER REPORT N° 10

Date : 01/11/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	Rain	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$27,500
Wind	Strong	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$158,000
Temperature	4 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Jarring operations with fishing BHA (Weatherford), prepare for milling operations. 5.5hrs Standby on weather (high winds).

24 Hours Forecast: 20cm milling on QDH packer to release the upper slips. RIH with fishing BHA (Weatherford) and pull packer+tailpipe.

POB/ Safety / BOP SUMMARY

Workers on site	Workers Injured	HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC 2	IEC 0	LTA 0 Days	Medevac 0	Last BOP Test	28/10/13	Next BOP Test	11/11/13
Rig 9	Rig 0	Daily Safety Meeting: 7:00 hrs.		H ₂ S Level	0	Trip Drill	
Others 1	Others 0	Tripping in and Out of hole. Jarring operations		CO ₂ Level	0	Pit Drill	
Total 12	Total 0			Gas Level	0	BOP Drill	31/10/2013

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Rancour	Forages	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	N. Andre	Forages	Derrick hand	P. Brochu	Foragaz	motorhand
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
S. Janes	Weatherford	Fishing Supervisor	F. Collin	Foragaz	roughneck			
			M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	leasehand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	0:30	0:30	Start Jarring operations. Jar 90 x 160,000lbs over pull to 180,000lbs after each 5 attempts.
0:30	0:35	0:05	Bump 8 times down.
0:35	1:00	0:25	Jar 30 x 160,000lbs over pull to 180,000lbs after each 5 jarring attempts.
1:00	1:10	0:10	Bump 20 times down.
1:10	2:00	0:50	Jar 80 x 160,000lbs over pull to 180,000lbs after each 5 jarring attempts.
2:00	3:10	1:10	Attempt to release of packer, couldn't release. Rig up power tongs to attempt to sping pipe.
3:10	5:30	2:20	Attempt to release of packer: unsuccessful using with power tongs. Rig Repair: issue with power tong cylinder.
5:30	10:30	5:00	Rig up torque tube, top drive. Safety meeting.
10:30	11:30	1:00	Pick up single screw on with top drive, pump down, rotate string and release grapple. Prepare to rack back top drive.
11:30	15:30	4:00	POOH, lay down jarring BHA.
15:30	17:30	2:00	Make up milling BHA, pick up milling BHA.
17:30	23:00	5:30	Operations shut down due to high winds 80-100km/h.
23:00	0:00	1:00	RIH with milling BHA.

Total Hours = 24.00 Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	5.916667	Tubing Running	_____	WOW	5.5	Stimulation	_____	Rig move	_____
Reaming	_____	Completion	_____	WOC	_____	Testing / Flow Back	_____	Rig Service	_____
Milling	_____	Plug Back	_____	Nipple U/D BOP	_____	Safety/BOP	0.25	Slip and Cut	_____
Circ./Cond.	_____	DST	_____	Press test BOP's	_____	Wait on Daylight	_____	Rig Repair	1
Tripping	6	Wireline Logging	_____	Kill Well	_____	M/U	2	TOTAL	24
NU/ Tree	_____	Squeeze Cement	_____	Slickline	_____	Fishing	3.3333333	DOWNTIME	1

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1	overshot w/ext			4.75	5.75	1.81		1							
2	fishing bumper sub			2.5	4.75	1.82		2							
3	fishing jar			2	4.75	3.34		3							
4	DC's			2.5	4.75	25.99		4							
5	intensifier			2	4.75	3.21		5							
6	DP TO surface			2.5	4	1205.6		6							
7								7							
8								8							
9								9							
10								10							
1241.77							0	0							0

Remarks:



DAILY WORKOVER REPORT N° 11

Date : 02/11/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	sunny	RT Elevation	57.1	m	Tubing Pressure	0	KPa	Daily Costs	\$20,600
Wind	80-100 km/h	RT-GL	4.12	m	Casing Pressure	0	KPa	Cum Costs	\$179,000
Temperature	9 Deg C	WH-GL	2.5	m	Casing size/Depth	178	1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @	1963m	Tubing Size/Depth	73	1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Operations shut down d/t high winds. RIH for milling operations, Mill down top packer slips. POOH and pick up jarring tools.

24 Hours Forecast: Milling on packer.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC	2	IEC	0	LTA	0 Days	Medevac	0	Last BOP Test	28/10/13
Rig	9	Rig	0			H ₂ S Level	0	Trip Drill	11/11/13
Others	2	Others	0	Daily Safety Meeting: 7:00 hrs.		CO ₂ Level	0	Pit Drill	
Total	13	Total	0	Milling operations		Gas Level	0	BOP Drill	31/10/2013

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	P. Brochu	Foragaz	Motorhand
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
S. Janes	Weatherford	Fishing Hand	F. Collin	Foragaz	roughneck			
C. England	Weatherford	Fishing Hand	M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	leasehand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	0:30	0:30	RIH with milling BHA
0:30	10:00	9:30	Operations shut down due to high winds 80-100km/h Rig service service Gen set. Safety meeting.
10:00	12:00	2:00	RIH with milling BHA slow, due to high winds.
12:00	13:00	1:00	Rig Repair: Tong pull back cyclinder broke
13:00	17:30	4:30	Milling operations mill down on packer slips. Milled down 20cm on packer with wash over mill.
17:30	21:00	3:30	POOH, laid on DP and rack back Top drive. POOH.
21:00	0:00	3:00	Break down and lay down Milling tools, pick up jarring tools.
Total Hours =		24.00	Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	WOW	9	Stimulation		Rig move	
Reaming	Completion	WOC		Testing / Flow Back		Rig Service	0.25
Milling	Plug Back	Nipple U/D BOP		Safety/BOP	0.25	Slip and Cut	
Circ./Cond.	DST	Press test BOP's		Wait on Daylight		Rig Repair	1
Tripping	Wireline Logging	Kill Well		M/U	3.5	TOTAL	24
NU/ Tree	Squeeze Cement	Slickline		Fishing		DOWNTIME	1

BOTTOM HOLE ASSEMBLY

#	BHA: Milling	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA: Fishing	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1	Shoe		5	6	0.85		1	overshot		4.75	5.75	1.81	
2	washpipe		5.13	5.76	1.84		2	Bumper sub		2.5	4.75	1.82	
3	drive sub		2.25	5.75	0.68		3	Fishing Jar		2	4.75	3.34	
4	drilling jars		2.25	4.75	6.52		4	DC		2.5	4.75	25.99	
5	DP TO surface		2.5	4	1231		5	Intensifier		2	4.75	3.21	
6							6	DP to surface		2.5	4	1209	
7							7						
8							8						
9							9						
10							10						
1240.89						0	1245.17						0

Remarks:



DAILY WORKOVER REPORT N° 12

Date : **03/11/2013**
 Well : **Red Brook#2 WO**
 Rig : **Foragaz#3**
 Field: **Bay St. George**

Program : **Red Brook#2 – ARW** Spud Date : **28/10/2013** Well Licence # **EP 03-107**

Weather @ 8:00	cloudy	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$30,000
Wind	Mod	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$209,000
Temperature	5 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Jarring operations, milling 32cm on packer.

24 Hours Forecast: Milling an additional 30cm on packer, jarring operations.

POB/ Safety / BOP SUMMARY

Workers on site	Workers Injured	HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC 2	IEC 0	LTA 0 Days	Medevac 0	Last BOP Test	28/10/13	Next BOP Test	11/11/13
Rig 9	Rig 0	Daily Safety Meeting: 7:00 hrs.		H ₂ S Level	0	Trip Drill	
Others 2	Others 0	Jarring operations		CO ₂ Level	0	Pit Drill	
Total 13	Total 0			Gas Level	0	BOP Drill	31/10/2013

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	E. Beaulieu	Foragaz	Derrick hand
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	P. Brochu	Foragaz	Motorhand
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
S. Janes	Weatherford	Fishing Hand	F. Collin	Foragaz	roughneck			
C. England	Weatherford	Fishing Hand	M. Chretien	Foragaz	Driller			
			J. Beaulieu	Foragaz	leasehand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	1:30	1:30	RIH with fishing BHA.
1:30	2:15	0:45	Tagged top of fish @ 1237m. Pulled 20,000 lbs over string Wt of 70,000 lbs, soft fired Jar, pulled 40,000 lbs over fired, pupped 60,000 over fired jar. Pulled 90,000 lbs over string weight fired jar, then continued for 10x the pulled to 70,000 lbs. No movement. Continued firing jars @ 90,000 lbs (160,000 lbs) for 21 times.
2:15	4:00	1:45	Shut down for rig repairs. Drawworks chain. Some of this repair time is part of cooling down time for the rig brakes and jars.
4:00	4:30	0:30	Continued jarring @ 160,000 lbs. After every 10 hits would pull to 170,000 lbs. Total of 30 hits. No movement.
4:30	5:00	0:30	After every hit would pull to 180,000 lbs for a total of 28 hits.
5:00	5:30	0:30	Stopped jarring to let jars cool down.
5:30			Continued jarring pulling 160,000 lbs (90,000 lbs over pill. After every hit pulled to 180,000 lbs. No movement. Stopped jarring to let jars cool.
	8:00	2:30	Continued jarring @ 160,000 lbs. Every 5 hits would pull to 180,000 lbs (45 hits). Bumped down 15 times, J/U 5 times, no mvt.
8:00	11:00	3:00	Wait on orders . Safety meeting.
11:00	12:00	1:00	Lay down single, pick up top drive, come off packer.
12:00	13:00	1:00	Rack back top drive and prepare to POOH to resume milling operations. Rig service mud pump seal.
13:00	15:30	2:30	POOH fishing BHA.
15:30	16:30	1:00	Lay down jarring tools and pick up milling tools.
16:30			RIH with milling tools. Pick up top drive. Tag top of packer @ 1237.62m. Kicked in pumps @ 78 strokes (1m3/min). Free rotating torque = 1000 ft/lbs. Milling torque = 1800 ft/lbs, with 1000 lbs on mill.
19:30	21:30	2:00	Wash and work over on packer elements with weatherford milling shoe. 6000 lbs on shoe @ 80 rpm. Milling torque: 1900 ft/lbs.
21:30	22:30	1:00	Issues with Rig. Wire came off electrical part on top drive engine.
22:30	0:00	1:30	Put 8000 lbs on shoe @ 80 rpm @ 2000 ft/lbs. Increase rpm to 100, pump @ 0.338m3/min.
Total Hours =		24.00	Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	WOO	2.75	Stimulation		Rig move	0
Reaming	Completion	WOC		Testing / Flow Back		Rig Service	0.25
Milling	Plug Back	Nipple U/D BOP		Safety/BOP	0.25	Slip and Cut	
Circ./Cond.	DST	Press test BOP's		Wait on Daylight		Rig Repair	2.75
Tripping	Wireline Logging	Kill Well		Set Packer		TOTAL	24.00
NU/ Tree	Squeeze Cement	Slickline		Fishing	4.75	DOWNTIME	2.75

BOTTOM HOLE ASSEMBLY

#	BHA:	N°	1	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA:	N°	2	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1	Shoe			5	6	0.85		1	overshot			4.75	5.75	1.81	
2	washover pipe			5.13	5.76	1.84		2	Bumper sub			2.5	4.75	1.82	
3	drive sub			2.25	5.75	0.68		3	Fishing Jar			2	4.75	3.34	
4	drilling jars			2.25	4.75	6.52		4	DC			2.5	4.75	25.99	
5	DP To surface			2.5	4	1228		5	Intensifer			2	4.75	3.21	
6								6	DP to surface			2.5	4	1201.5	
7								7							
8								8							
9								9							
10								10							
1237.89							0	1237.67							0

Remarks:



DAILY WORKOVER REPORT N° 13

Date : 04/11/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : Well Licence # EP 03-107

Weather @ 8:00	cloudy/sunny	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$23,200
Wind	Mod	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$233,000
Temperature	4 Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Milling on packer (rubber elements). Crew change.

24 Hours Forecast: Continue milling operations, RIH with fishing BHA and attempt to pull packer.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC	2	IEC	0	LTA	0 Days	Medevac	0	Last BOP Test	28/10/13
Rig	10	Rig	0	Daily Safety Meeting: 15:00 hrs.		H ₂ S Level	0	Next BOP Test	11/11/13
Others	2	Others	0	Jarring/Milling operations		CO ₂ Level	0	Trip Drill	
Total	14	Total	0			Gas Level	0	Pit Drill	
						BOP Drill		31/10/2013	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	N. Charest	Foragaz	Roughneck
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	S. Francoeur	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
S. Janes	Weatherford	Fishing Hand	P. Brochu	Foragaz	Motors			
C. England	Weatherford	Fishing Hand	F. Lyonnais	Foragaz	Driller			
M. Belanger	Foragaz	Operator	J. Boulay	Foragaz	Derrickhand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	0:45	0:45	Kicked out rotation and pumps. Rechecked depth: 0.12cm deeper tag. Hit down on fish to try to lock up rotating parts
0:45			Worked pipe @ 40 rpm, picked up off and come back down setting 8000 lbs on shoe. Picked up, kicked out rpm and pump.
	1:45	1:00	Retagged @ 1237.74m
1:45	2:15	0:30	Kicked in pumps @ .5m3/m, 80 rpm @1800psi. Continued milling.
2:15	2:45	0:30	Increased pumps to 0.7m3/m with 6000 lbs on shoe. Increased weight on shoe to 8000 lbs, 1800 psi of torque (800ft/lbs milling)
2:45	3:00	0:15	Worked pipe while rotating. Milling depth = 1237.87m
3:00	6:15	3:15	Continued milling @ 80 rpm, 0.7m3/m, 8000 WOM. Total depth 1237.94m.
6:15	8:00	1:45	Worked shoe over fish top, kicked in pumps @ 1m3/m and did a bottom up.
8:00	15:00	7:00	Crew change. Unload water for rig. Unload sucker rods. Safety meeting with new crew.
15:00	15:30	0:30	Handover / Safety meeting.
15:30	17:30	2:00	Kicked in pumps @ 1m3/min, did 2 bottoms up. Started milling, 1200 psi free torque, 70 rpm, 700 l/min, 4000 lbs down weight.
17:30	17:50	0:20	Milling @ 60 rpm, 600 l/min, 8000 lbs down weight, 1800 psi.
17:50	18:15	0:25	Stopped rotary, hit down on packer 3 times, turing string a 1/4 turn each time. Dry milled @30 rpm, 800 psi free torque, 4000 lbs.
18:15	18:30	0:15	Changed down weight to 12000 lbs.
18:30			stopped rotary, picked up and hit down on packer 3 times turning string a 1/4 turn. Milling @ 60 rpm, 6000 l/min, 1200 psi FT
	20:30	2:00	Depth = 1237.96m. Kicked in rpm @ 40, PR = 0.338 m3/m, 1400 psi for torque (2200 ft/lbs)
20:30	21:45	1:15	Hit down on top of packer trying to bend rings. Milling @ 40 rpm, PR = 0.338 m³/min, 8000 lbs WOM, 1400 psi.
21:45	0:00	2:15	No gain. Decision made to POOH and inspect shoe.
Total Hours =		24.00	Remarks: When jarring: rig brakes and jars heat up so cooling time must be allowed 30-40 mins

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	WOO	Stimulation	Rig move	0
Reaming	Completion	WO Crew	Testing / Flow Back	Rig Service	
Milling	Plug Back	Nipple U/D BOP	Safety/BOP	Slip and Cut	
Circ./Cond.	DST	Press test BOP's	Wait on Daylight	Rig Repair	
Tripping	Wireline Logging	Kill Well	Set Packer	TOTAL	24
NU/ Tree	Squeeze Cement	Slickline	Fishing	DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA: Milling	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA: Jarring	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]		
1	Shoe	1	5	6	0.85		1		2						
2	Washover pipe		5.13	5.76	1.84		2								
3	DC		2.5	4.75	38.4		3								
4	drive sub		2.25	5.75	0.68		4								
5	drilling jars		2.25	4.75	6.52		5								
6	DP TO surface		3	4	1189.3		6								
7							7								
8							8								
9							9								
10							10								
						1237.59	0							0	0

Remarks:



DAILY WORKOVER REPORT N° 14

Date : 05/11/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	sunny	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$27,000
Wind	light	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$260,000
Temperature	2Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Milling on packer, POOH, pick up fishing BHA. Jarring operations.

24 Hours Forecast: Milling operations.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC	2	IEC	0	LTA	0 Days	Medevac	0	Last BOP Test	28/10/13
Rig	10	Rig	0	Daily Safety Meeting: 15:00 hrs.		H ₂ S Level	0	Next BOP Test	11/11/13
Others	2	Others	0	Jarring/Milling operations		CO ₂ Level	0	Trip Drill	
Total	14	Total	0			Gas Level	0	Pit Drill	
						BOP Drill		31/10/2013	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	N. Charest	Foragaz	Roughneck
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	S. Francoeur	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
S. Janes	Weatherford	Fishing Hand	P. Brochu	Foragaz	Motors			
C. England	Weatherford	Fishing Hand	F. Lyonnais	Foragaz	Driller			
M. Belanger	Foragaz	Operator	J. Boulay	Foragaz	Derrickhand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	1:15	1:15	POOH, lay down wash over pipe 100% worn, make up new wash pipe and start RIH.
1:15	4:15	3:00	RIH.
4:15	4:45	0:30	Tag top of packer at 1239.77m, start rotating @ 40rpm, pump rate .338m3/m torque 1600psi, 4000lbs WOM string wt 82000lbs.
4:45	5:15	0:30	Top drive stalled pick up of bottom, increase rpm to 60 put 6000lbs on top of packer 1300psi torque.
5:15	6:00	0:45	Mill down 0.31m torque 1300-1500psi 2000lbs WOM
6:00	7:00	1:00	WOM 4000LBS, 80RPM, 1500PSI milling torque PR 0.500M3/M.
7:00	7:30	0:30	Crew shift change. Safety meeting.
7:30	9:00	1:30	Milling 40rpm, 0.5m3/m, torque 1000-1400psi. WOM 12000LBS
9:00	9:25	0:25	Dry mill 40rpm 1200psi torque WOM 10000LBS.
9:25	9:40	0:15	Pick up string and hit down 3 times on packer. Milling at 70 rpm, 600 lpm, WOM 12,000, 1500 psi.
9:40			Informed Weatherford to add more weight to mill 1000lbs over every 15 mins intervals till 20,000lbs.
9:40	11:25	1:45	Milling at 60 rpm, 600 lpm while Increasing WOM 1000lbs 15 min intervals
11:25	11:30	0:05	Bump down ontop of packer 15 times.
11:30	12:00	0:30	Mill down 50 rpm, 500l/m, 1700psi torque, WOM 24000lbs.
12:00	13:15	1:15	Complete 2 bottoms up.
13:15	14:00	0:45	Top drive issue grease packing. This could be a problem with all the jarring and hitting down on packer.
14:00	18:00	4:00	POOH lay down wash over pipe split it shoe, make up fishing BHA and start RIH.
18:00	21:00	3:00	RIH with jarring BHA.
21:00	22:15	1:15	Jar on packer 30 times @17000lbs, pull up to 180000lbs after every 5 pulls, BD 5 times, jar on packer 5 times @ 17000lbs.
22:15	0:00	1:45	Slip and cut, pick up top drive, POOH.
Total Hours =	24.00		Remarks:

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	WOO	Stimulation	Rig move	0
Reaming	Completion	WO crews	Testing / Flow Back	Rig Service	0.25
Milling	Plug Back	Nipple U/D BOP	Safety/BOP	Slip and Cut	0.5
Circ./Cond.	DST	Press test BOP's	Wait on Daylight	Rig Repair	0.75
Tripping	Wireline Logging	Kill Well	Set Packer	TOTAL	24
NU/ Tree	Squeeze Cement	Slickline	Fishing	DOWNTIME	0.75

BOTTOM HOLE ASSEMBLY

#	BHA: Milling	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA: Jarring	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1	Shoe	1	5	6	0.85		1	overshot	2	4.75	5.75	1.81	
2	washpipe		5.13	5.76	1.84		2	Bumper sub		2.5	4.75	1.82	
3	DC		2.5	4.75	38.4		3	Fishing Jar		2	4.75	3.34	
4	drive sub		2.25	5.75	0.68		4	DC		2.5	4.75	25.99	
5	drilling jars		2.25	4.75	6.52		5	Intensifier		2	4.75	3.21	
6	DP TO surface		3	4	1189.3		6	DP to surface		2.5	4	1201.4	
7							7						
8							8						
9							9						
10							10						
1237.59						0	1237.57						0

Remarks:



DAILY WORKOVER REPORT N° 15

Date : 06/11/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	cloudy	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$28,000
Wind	light	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$289,000
Temperature	5Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1292	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Milling operation packer. POOH lay down milling tools lay down DP.

24 Hours Forecast: Run 2-7/8" tubing, install and pressure test WH plug. Nipple down BOP'S and Nipple up Xmas tree. Release rig.

POB/ Safety / BOP SUMMARY

Workers on site		Workers Injured		HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC	2	IEC	0	LTA	0 Days	Medevac	0	Last BOP Test	28/10/13
Rig	10	Rig	0	Daily Safety Meeting: 15:00 hrs.		H ₂ S Level	0	Next BOP Test	11/11/13
Others	2	Others	0	Laying down drill pipe		CO ₂ Level	0	Trip Drill	
Total	14	Total	0			Gas Level	0	Pit Drill	
						BOP Drill		31/10/2013	

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	N. Charest	Foragaz	Roughneck
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	S. Francoeur	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
S. Janes	Weatherford	Fishing Hand	P. Brochu	Foragaz	Motors			
C. England	Weatherford	Fishing Hand	F. Lyonnais	Foragaz	Driller			
M. Belanger	Foragaz	Operator	J. Boulay	Foragaz	Derrickhand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	1:15	1:15	Slip and cut. Rig service tighten up guide wires.
1:15	4:30	3:15	POOH lay down jarring BHA.
4:30	8:30	4:00	Pick up milling BHA RIH to start milling Milling shoe 4.75".
8:30	9:30	1:00	Pick up top drive start milling operations.
9:30	10:00	0:30	Tag top of fish.
10:00	10:20	0:20	Mill down 60 rpm 600l/m 2000psi torque WOM 4000-10000lbs.
10:20	11:45	1:25	Mill down 60 rpm 600l/m 2000psi torque WOM 4000-10000lbs to 20cm from top.
11:45	12:05	0:20	Mill down 30 rpm 1000-2000psi torque WOM 8000lbs rubber in sample catcher.
12:05	12:40	0:35	Mill down 50 rpm 400l/m 1500psi torque WOM 12000lbs.
12:40	13:00	0:20	Mill down 70 rpm 500l/m 1700psi torque WOM 12000lbs.
13:00	13:20	0:20	Dry mill 30 rpm, WOM 8000LBS, 1000-1200 PSI sm pieces of rubber found.
13:20	14:30	1:10	Increase weight 2000lbs 1400psi 400l/m no change in meterage.
14:30	19:30	5:00	Rack back top drive POOH side ways lay down weatherford tools release weatherford fishing services.
19:30	0:00	4:30	Rig down DP running tools, PU tubing running tools RIH with tubing.
Total Hours =	24.00		Remarks: Crews going on days 12 hr shifts no nights.

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	4.5	WOO	Stimulation		Rig move	0
Reaming	Completion		WO crews	Testing / Flow Back		Rig Service	0.25
Milling	Plug Back		Nipple U/D BOP	Safety/BOP	0.25	Slip and Cut	1
Circ./Cond.	DST		Press test BOP's	Wait on Daylight		Rig Repair	
Tripping	Wireline Logging		Kill Well	Set Packer		TOTAL	24
NU/ Tree	Squeeze Cement		Slickline	Fishing		DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA: Milling	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA: Jarring	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1	Shoe	1	4.75	6	0.85		1		2				
2	washpipe		5.13	5.76	1.84		2						
3	DC		2.5	4.75	38.4		3						
4	drive sub		2.25	5.75	0.68		4						
5	drilling jars		2.25	4.75	6.52		5						
6	DP TO surface		3	4	1189.3		6						
7							7						
8							8						
9							9						
10							10						
1237.59						0	0						0

Remarks:



DAILY WORKOVER REPORT N° 16

Date : 07/11/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	cloudy	RT Elevation	57.1	m	Tubing Pressure	0	KPa	Daily Costs	\$36,000
Wind	light	RT-GL	4.12	m	Casing Pressure	0	KPa	Cum Costs	\$327,000
Temperature	7Deg C	WH-GL	2.5	m	Casing size/Depth	178	1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m		Tubing Size/Depth	73	1015	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: RIH with 2-7/8" tubing. Set BPV. N/D BOP's, N/U X-Mas tree.

24 Hours Forecast: Pull BPV, install WH plug. Pressure test bonnet and pull BPV. Release rig @ 12:00 noon.

POB/ Safety / BOP SUMMARY

Workers on site	Workers Injured	HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC 2	IEC 0	LTA 0 Days	Medevac 0	Last BOP Test	28/10/13	Next BOP Test	11/11/13
Rig 10	Rig 0	Daily Safety Meeting: 7:00 hrs.		H ₂ S Level	0	Trip Drill	
Others	Others 0	N/D BOP'S		CO ₂ Level	0	Pit Drill	
Total 12	Total 0			Gas Level	0	BOP Drill	31/10/2013

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	N. Charest	Foragaz	Roughneck
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	S. Francoeur	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
M. Belanger	Foragaz	Operator	P. Brochu	Foragaz	Motors			
			F. Lyonnais	Foragaz	Driller			
			J. Boulay	Foragaz	Derrickhand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on daylight hours.
7:00	7:15	0:15	Safety meeting.
7:15	11:00	3:45	RIH with 1014.6m of 2-7/8" tubing, open ended, land tubing hanger, install BPV in hanger. Lay out tubing not needed.
11:00	11:30	0:30	Prepare tools to start N/D BOP's.
11:30	13:30	2:00	Tighten up tubing hanger bolts. Bolts hard to tighten: slack off and clean ok.
13:30	17:00	3:30	N/D BOP's, all sections of BOP's have to be removed (due for inspection). Pack away Lory oilfield rentals equipment.
17:00	19:00	2:00	Clean and N/U X-Mas tree. Rig Service: check oil on generator
19:00	0:00	5:00	Wait on daylight hrs. Night security by Foragaz.
			Crews going on 12hrs shift, no night shift.
Total Hours =		24.00	Remarks: Packing needs replacing next X-Mas tree removal

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	3.75	WOO	Stimulation	Rig move	0
Reaming	Completion		WO crews	Testing / Flow Back	Rig Service	0.25
Milling	Plug Back		Nipple U/D BOP	Safety/BOP	Slip and Cut	
Circ./Cond.	DST		Press test BOP's	Wait on Daylight	Rig Repair	
Tripping	Wireline Logging		Kill Well	Set Packer	TOTAL	24
NU/ Tree	Squeeze Cement		Slickline	Fishing	DOWNTIME	0

BOTTOM HOLE ASSEMBLY

#	BHA: Tubing	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA: Jarring	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]		
1	2 7/8 tubing		62	73	1014.6		1								
2							2								
3							3								
4							4								
5							5								
6							6								
7							7								
8							8								
9							9								
10							10								
						1014.6	0							0	0

Remarks:



FINAL WORKOVER REPORT N° 17

Date : 08/11/2013
 Well : Red Brook#2 WO
 Rig : Foragaz#3
 Field: Bay St. George

Program : Red Brook#2 – ARW Spud Date : 28/10/2013 Well Licence # EP 03-107

Weather @ 8:00	cloudy	RT Elevation	57.1 m	Tubing Pressure	0 KPa	Daily Costs	\$6,200
Wind	light	RT-GL	4.12 m	Casing Pressure	0 KPa	Cum Costs	\$332,000
Temperature	9Deg C	WH-GL	2.5 m	Casing size/Depth	178 1945	Perf. Int. (mRF)	C: 1558-1573
Completion Fluid	2% KCl	Deviation	9.1° @ 1963m	Tubing Size/Depth	73 1015	D: 1324-1334	D: 1297-1312

Summary of Daily Operations: Pressure test wellhead and Xmas tree, pull test plug. Release rig @ 12:00 noon.

24 Hours Forecast:

POB/ Safety / BOP SUMMARY

Workers on site	Workers Injured	HSE (Near Miss/ Incident / Injury)		BOP Size	228.6	BOP Rating	20,700
IEC 2	IEC 0	LTA 0 Days	Medevac 0	Last BOP Test	28/10/13	Next BOP Test	11/11/13
Rig 10	Rig 0	Daily Safety Meeting: 7:00 hrs.		H ₂ S Level	0	Trip Drill	
Others	Others 0	N/D BOP'S		CO ₂ Level	0	Pit Drill	
Total 12	Total 0			Gas Level	0	BOP Drill	31/10/2013

Name	Company	Position	Name	Company	Position	Name	Company	Position
Travis Young	IEC	DSV	S. Francoeur	Foragaz	Driller	N. Charest	Foragaz	Roughneck
Dave White	HSE	Safety officer	N. Andre	Foragaz	Derrick hand	S. Francoeur	Foragaz	Roughneck
G. McKinnon	Foragaz	Toolpush	J. Dumaresq	Foragaz	Derrick hand			
M. Belanger	Foragaz	Operator	P. Brochu	Foragaz	Motors			
			F. Lyonnais	Foragaz	Driller			
			J. Boulay	Foragaz	Derrickhand			

TIME LOG - 00:00 to 24:00 (include Safety meetings and Tool box talks)

From [Hr]	To [Hr]	Duration	Operation description
0:00	7:00	7:00	Wait on daylight hours.
7:00	7:15	0:15	Safety meeting.
7:15	9:00	1:45	Finish N/U Xmas tree.
9:00	9:15	0:15	Pull 212x1 BPV Install 2-7/8 tubing plug.
9:15	10:00	0:45	Rig up pressure testing equipment.
10:00	10:15	0:15	Low pressure test on Xmas tree bonnett: 15 mins @ 1500kPa, dropped to 1485kPa in 15mins.
10:15	10:45	0:30	HP test on bonnett: 15 mins @ 15000kPa bleed down to 14000kPa in 5 mins, pressure back up to 15000kPa for 15mins: ok.
10:45			Shut all valves on Xmas tree, secure Xmas tree, pack all Lory oilfield rentals equipment in shipment box.
			Place all pup joints in Weatherford completions box. Place TWL liner setting tool to ship.
			Crosbie Ind onsite to clean Mud Tanks.
	12:00	1:15	Release Foragaz rig as of 12:00 noon.
Total Hours =		12.00	Remarks: Tubing tally attached

RIG TIME (operation duration in hours)

Rig Up/Dn	Tubing Running	WOO	Stimulation	Rig move
Reaming	Completion	WO crews	Testing / Flow Back	Rig Service
Milling	Plug Back	Nipple U/D BOP	Safety/BOP	Slip and Cut
Circ./Cond.	DST	Press test tree 1.5	Wait on Daylight 7	Rig Repair
Tripping	Wireline Logging	Kill Well	Set Packer	TOTAL
NU/ Tree 1.75	Squeeze Cement	Slickline	Pick up rentals 1.5	DOWNTIME
				12
				0

BOTTOM HOLE ASSEMBLY

#	BHA: Tubing	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]	#	BHA: Jarring	N°	ID [mm]	OD [mm]	Length [m]	Wt [Kg]
1							1						
2							2						
3							3						
4							4						
5							5						
6							6						
7							7						
8							8						
9							9						
10							10						
					0	0						0	0

Remarks:

APPENDIX D : Workover Time Breakdown (Actual Vs. Plan)

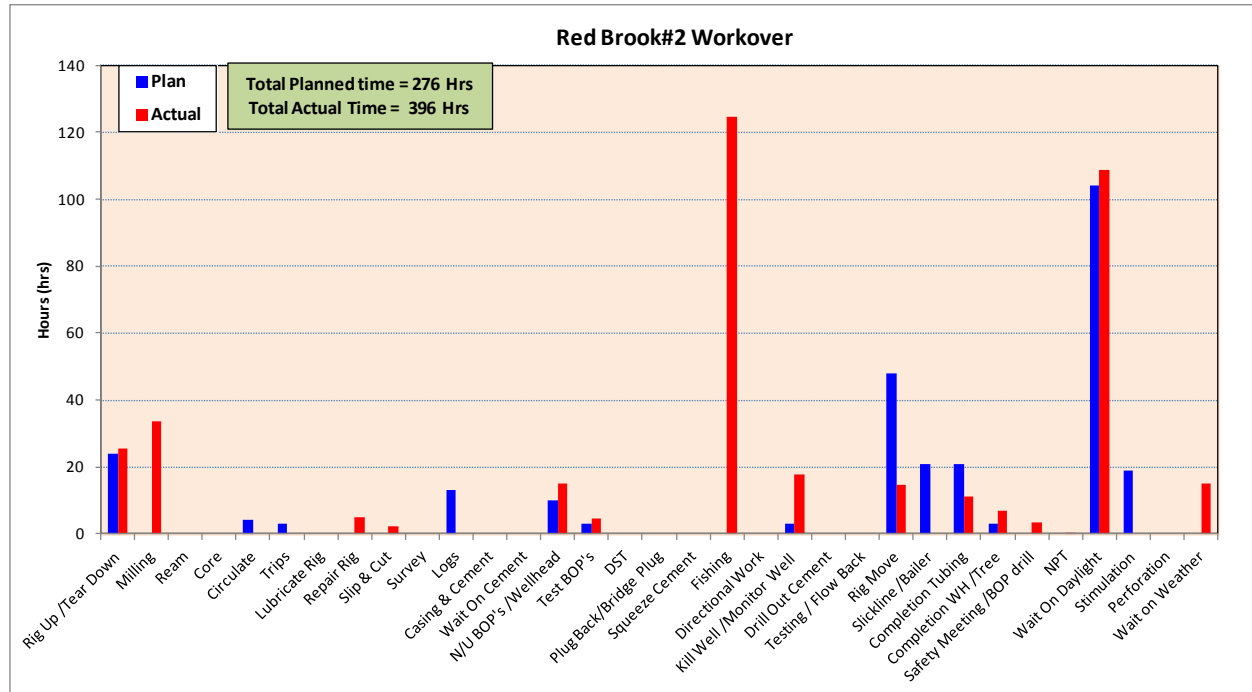
Number of pages : 4

Summary of the content: Time Breakdown Table and Charts for Red Brook#2 Workover

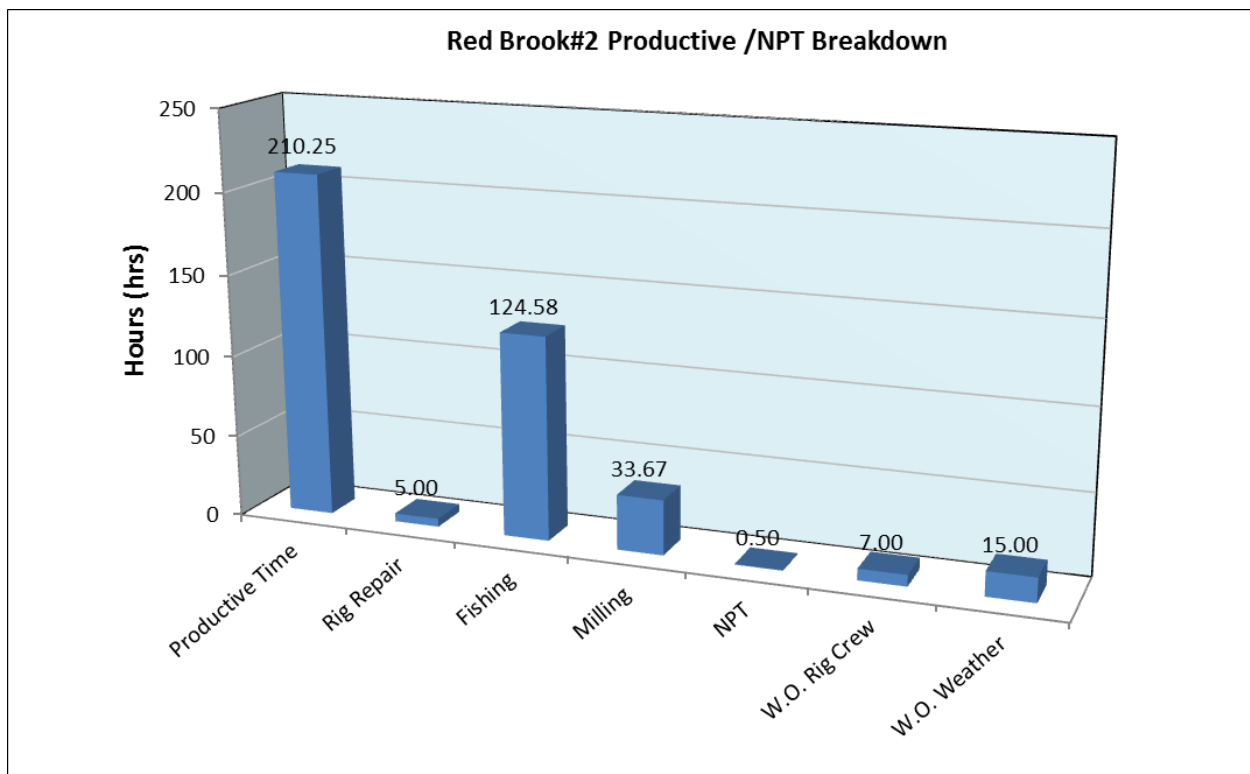
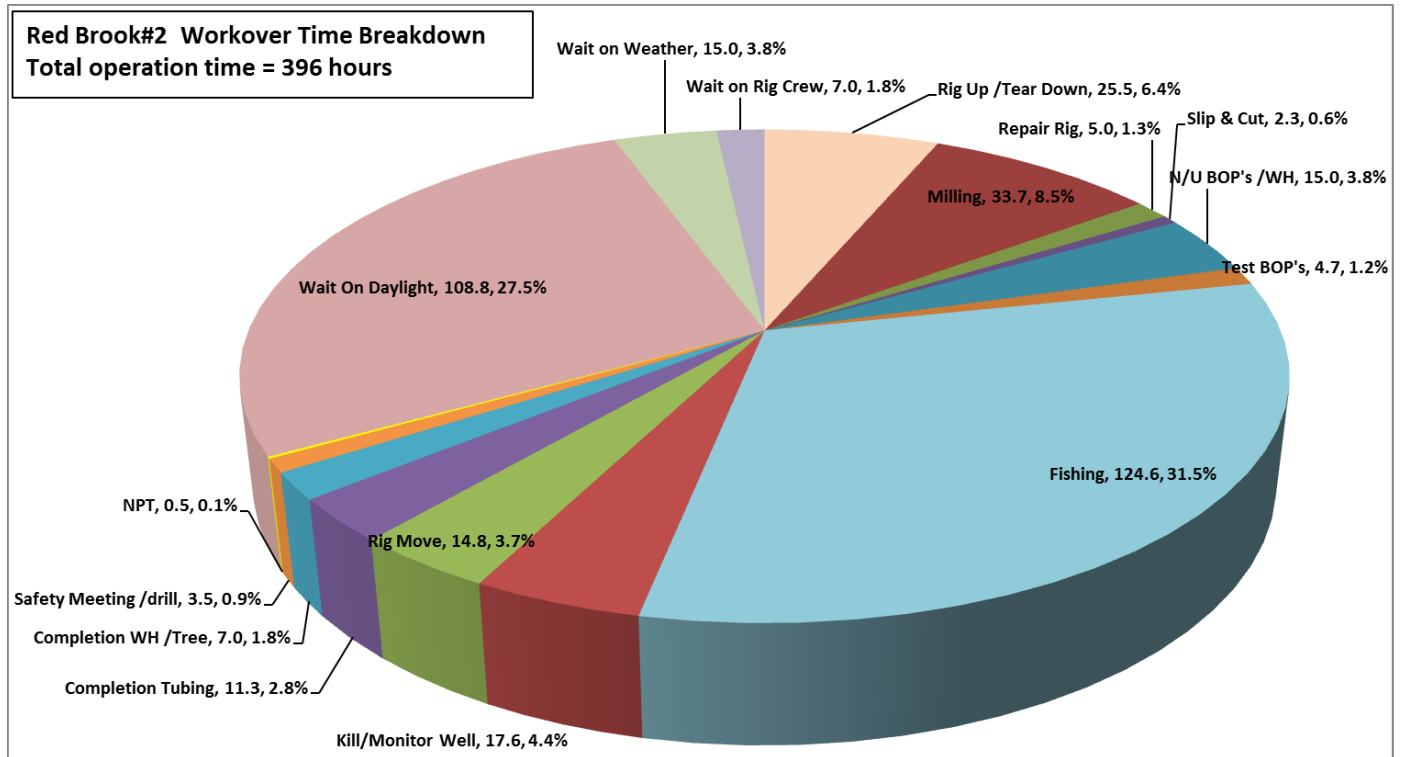
APPENDIX D : Workover Time Breakdown (Actual Vs. Plan)

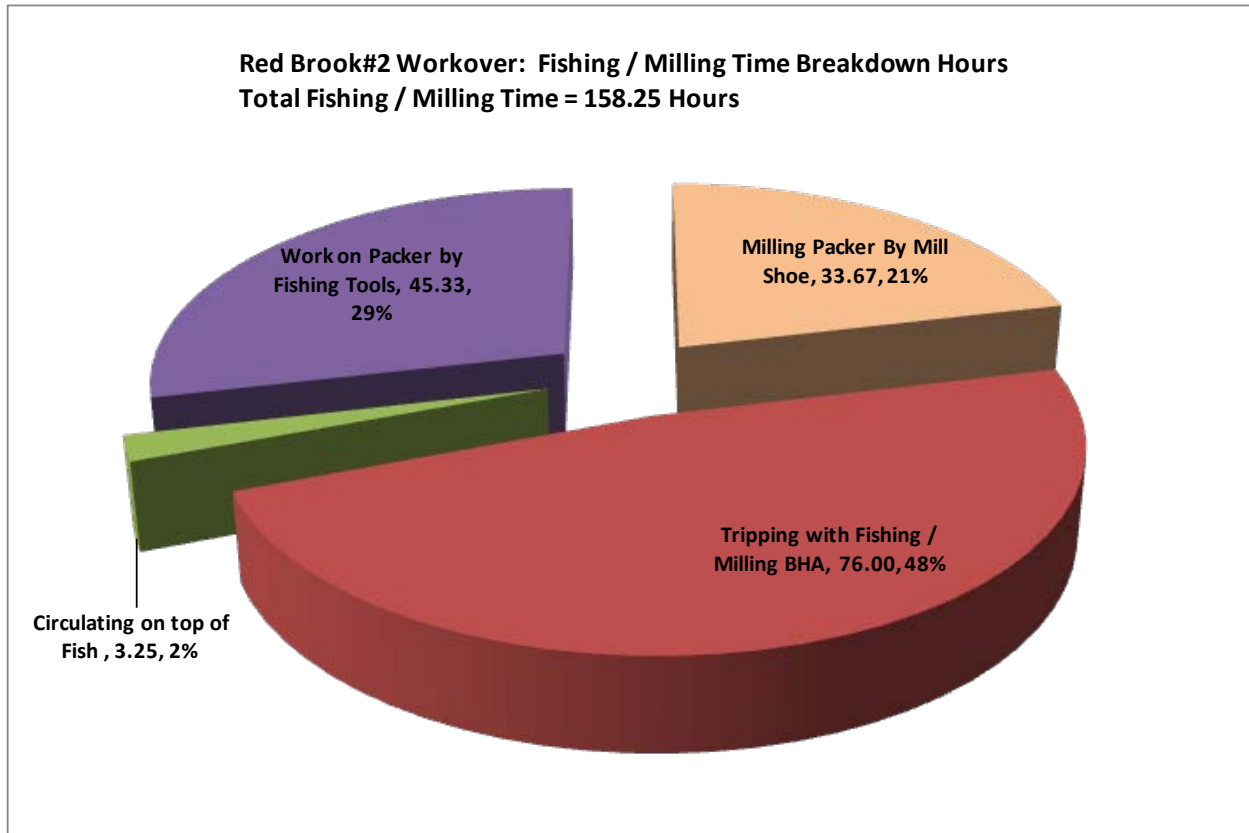
Red Brook#2 Workover		PLAN		ACTUAL	
#	Activity	Hrs	Day	Hrs	Day
1	Rig Up /Tear Down	24	1.00	25.50	1.06
2	Milling			33.67	1.40
3	Ream				
4	Core				
5	Circulate	4	0.17		
6	Trips	3	0.13		
7	Lubricate Rig				
8	Repair Rig			5.00	0.21
9	Slip & Cut			2.25	0.09
10	Survey				
11	Logs	13	0.54		
12	Casing & Cement				
13	Wait On Cement				
14	N/U BOP's /Wellhead	10	0.42	15.00	0.63
15	Test BOP's	3	0.13	4.67	0.19
16	DST				
17	Plug Back/Bridge Plug				
18	Squeeze Cement				
19	Fishing			124.58	5.19
20	Directional Work				
21	Kill Well /Monitor Well	3	0.13	17.58	0.73
22	Drill Out Cement				
23	Testing / Flow Back				
24	Rig Move	48	2.00	14.75	0.61
25	Slickline /Bailer	21	0.88		
26	Completion Tubing	21	0.88	11.25	0.47
27	Completion WH /Tree	3	0.13	7.00	0.29
28	Safety Meeting /BOP drill			3.50	0.15
29	NPT			0.50	0.02
30	Wait On Daylight	104	4.33	108.75	4.53
31	Stimulation	19	0.79		
32	Perforation				
33	Wait on Weather			15.00	0.63
34	Wait on Rig Crew			7.00	0.29
Total =		276	11.50	396.00	16.50
Actual to Plan =		120.00	43.48%		

APPENDIX D : Workover Time Breakdown (Actual Vs. Plan)



APPENDIX D : Workover Time Breakdown (Actual Vs. Plan)





APPENDIX E : Well Costs

Number of pages : 1

Summary of the content: Well Costs for Red Brook#2 Workover

Pre-Spud and Post Rig release cost	\$ 105,000
Operating Costs	\$ 199,000
Bits and Hole openers	\$ 0
Drilling tools and equipment	\$ 23,000
Drilling fluids	\$ 1,000
Casing and casing setting services	\$ 0
Fishing	\$ 82,000
Well control and Rig Instrumentation	\$ 5,000
Material Supply and Haulage	\$ 21,000
Directional Services	\$ 0
Testing and Completion services	\$ 139,000
Evaluation Services	\$ 0
Supervision and Administration	\$ 24,000
Total	\$0.60 M

APPENDIX F : Benefits Tracking

Number of pages : 1

Summary of the content: This appendix presents a summary of the workforce during the Red Brook#2 workover operations. (includes 2 days rig move and 15 days workover operation)

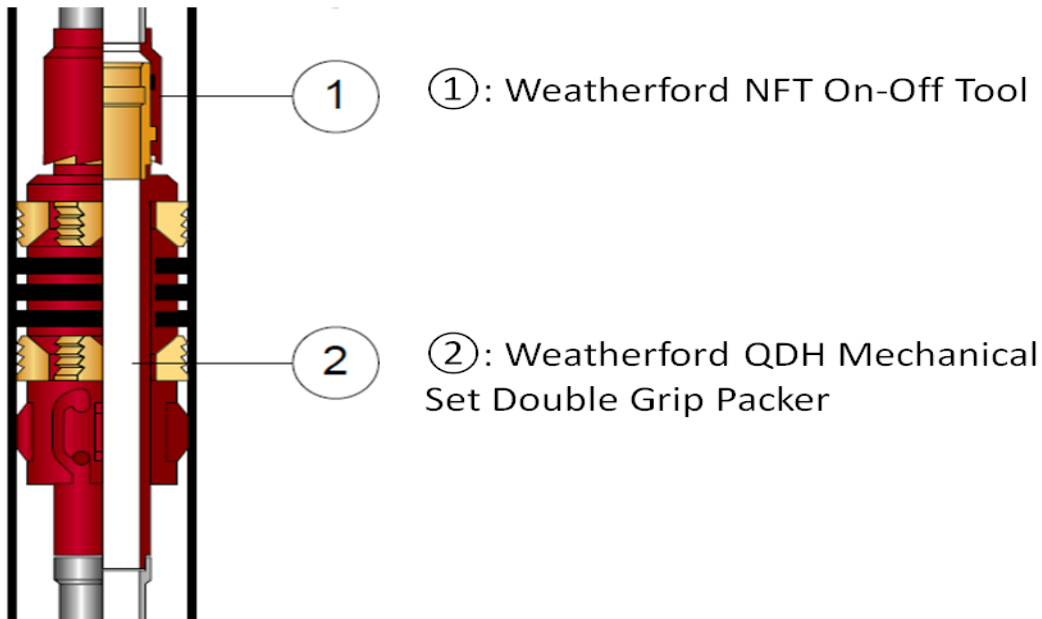
RESIDENCE			
Day	NL	OTHER	Total
1	6	10	16
2	6	10	16
3	3	10	13
4	5	10	15
5	2	10	12
6	2	11	13
7	2	11	13
8	2	10	12
9	3	9	12
10	3	9	12
11	3	10	13
12	3	10	13
13	3	11	14
14	3	11	14
15	3	11	14
16	2	10	12
17	2	10	12
Average	3.1	10.2	13.3
Percentage	23.5%	76.5%	100.0%

APPENDIX G : Fishing And Milling Packer

Number of pages : 4

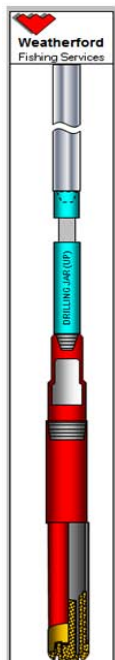
Summary of the content: This Appendix represents the Fishing & Milling Operations carried on QDH Packer including Packer Diagram, Mill Shoe Assembly and the BHAs Reports.

QDH Mechanical Packer



Weatherford QDH Mechanical Double Grip Packer - Dimensions:

Milling Assembly



← Milling BHA

Mill Shoe →

← Wash Pipe Extension

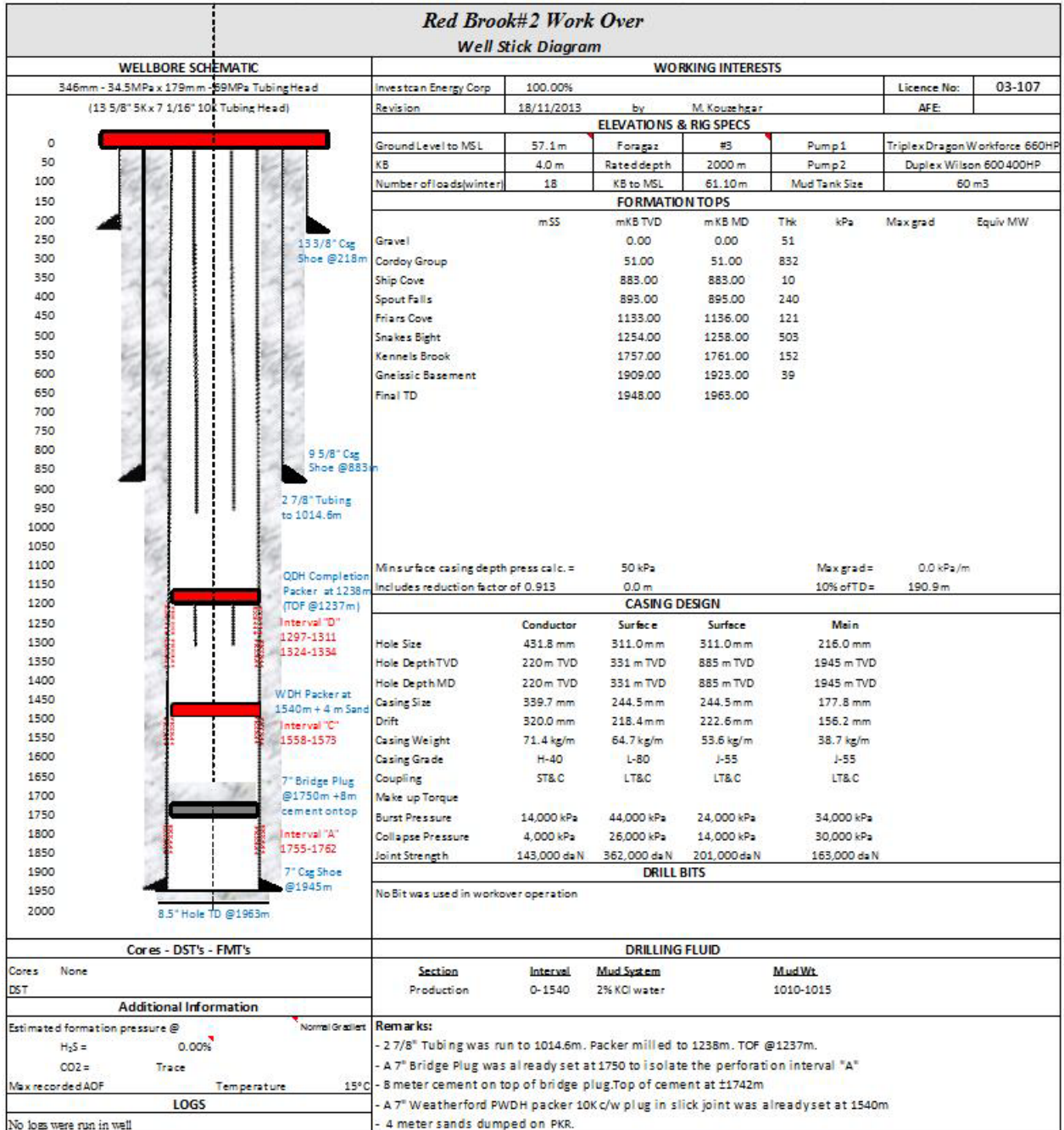
← Wash Over Mill Shoe

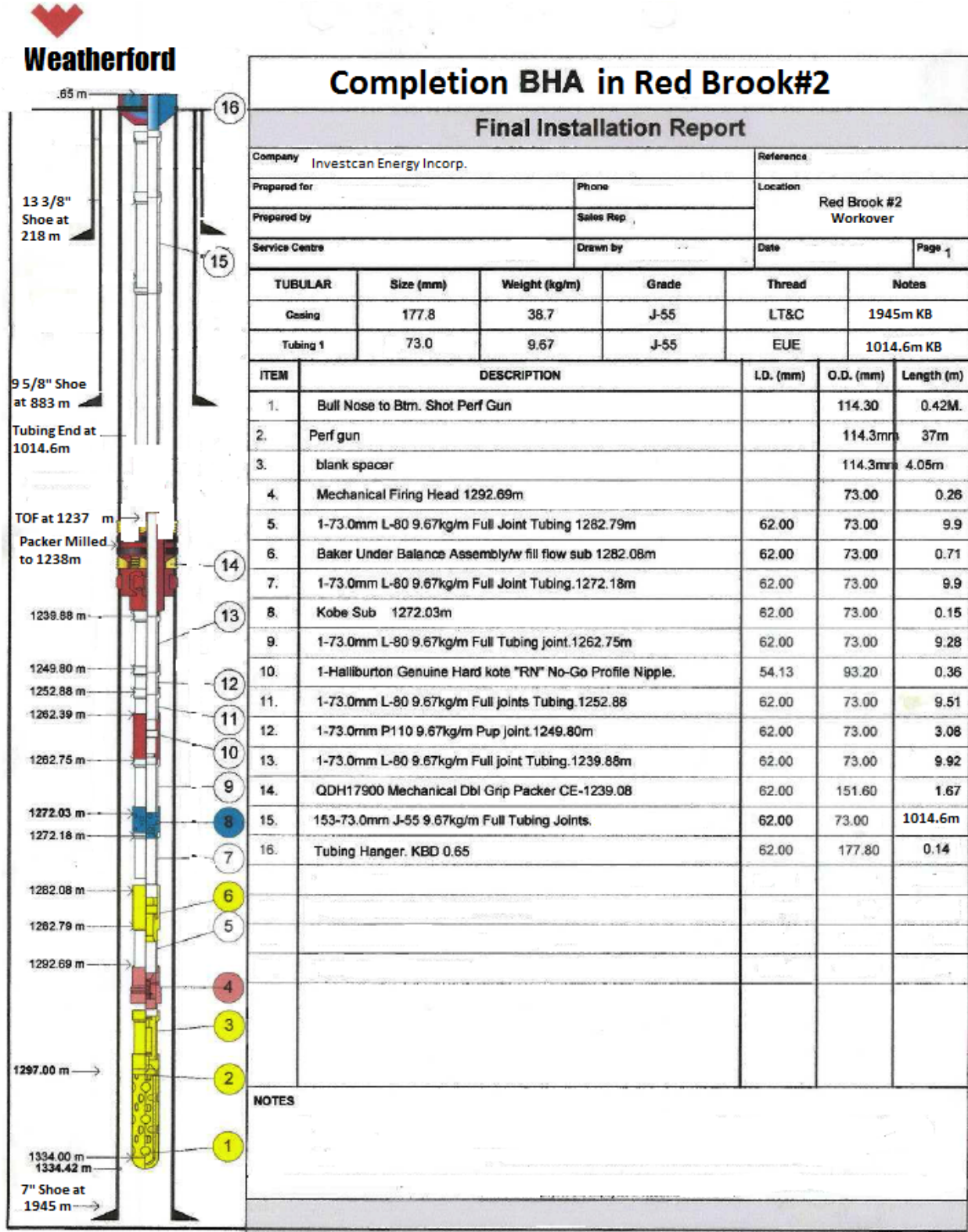


APPENDIX H : Wellbore, Completion & Wellhead Schematics

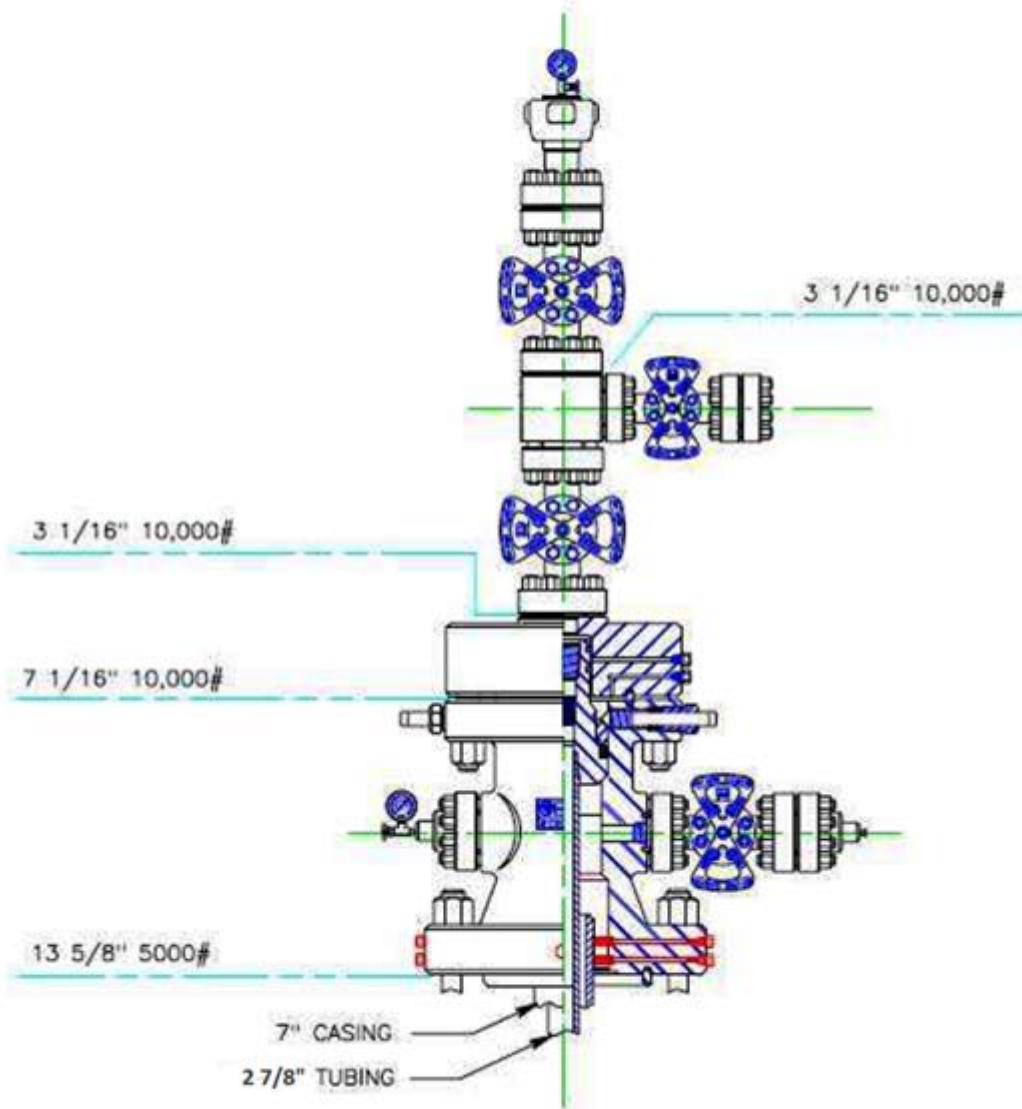
Number of pages : 3

Summary of the content: The figure summarizes the final well stick diagram , final completion and wellhead configuration on Red Brook#2 Workover





Red Brook#2 Wellhead / Tree Schematic



APPENDIX I : List of Acronyms

Number of pages : 1

Summary of the content: This appendix presents a list of acronyms used for Red Brook#2 Workover Final Well Report.

ARW	Authority to Re-Enter a Well
BOP	Blow Out Preventer
COND	Condensate
d	Day
daN	Decanewton
ft	Foot
GR	Gamma Ray
h	Hour
IF	Inside Face
KB	Kelly Bushing
kg	Kilogram
km	Kilometre
kPa	Kilopascals
lbf	Pound Force
LCM	Lost Circulation Material
m	Metre
min	Minute
mKB	Meters Below Kelly Bushing
mm	Millimetre
mW	Megawatt
OD	Outside Diameter
ROP	Rate of Penetration
RPM	Revolutions per Minute
TD	Total Depth
TVD	True Vertical Depth
VSP	Vertical Seismic Profile
XO	Cross-over