



## Daily Completion and Workover

PARA ET AL LIARD K-29A

Rig: Savanna Well Servicing

Business Unit: NE BC & NWT COU

Report Date: 9/20/2013

Report #: 8.0

Total AFE Amount: 1,145,300.00

AFE Number: 13N370094

Daily Cost Total: 76,860

Cum Cost to Date: 760,874

API/UWI 300K296030123300	Surface Legal Location	Field Name LIARD	License # 0001861
Well Configuration Type	Casing Flange Elevation (m)	Ground Elevation (m) 409.60	Original KB Elevation (m) 418.80
Last Casing String	PBTD (All) (mKB)	Casing Pressure (kPa)	Tubing Pressure (kPa)

### Objective

Suspend Nahanni interval eliminating pressure build-up. Set well up for future access to uphole intervals.

### Operations Summary

HSE reports no incidents or accidents reported. Held a pre-job safety meeting/hazard assessment with all personnel on location, all safety concerns discussed. Discussed the ERP procedures for this location. Discussed operations and procedures related to drilling out surface plug. Pressure tested all surface equipment to 25 MPa. Good. Ran mud motor BHA as listed tagging 10 k surface BP @ ~ 63 mKB. Drilled out plug in 60 minutes. No pressure encountered below the plug. Ran a total of 67 jts tubing displacing fluid to rig tank. Shut down and await availability of barge.

### Operations Next Report Period

Road Condition Fair	Weather Cloudy	Start Date 9/13/2013	End Date
Head Count 32.0	Personnel Total Hours (hr) 384.00	Cum Personnel Total Hours (hr) 3,192.00	

### Daily Contacts

Title	Job Contact	Mobile
Office Supervisor	Lionel Larson	587-777-4526
HSE Advisor	Milo Gloss	403-536-9852
Day Supervisor	Stephen Baggs	403-910-0347
Rig Manager	Ehren Getz	780-513-2432
Night Supervisor	Darrin Carver	403-350-1452

### Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Com
00:00	03:15	3.25	3.25	Continued in hole with 60.3mm drill pipe, tallied, drifted, picked up, lubed, made up and ran in hole with the following drill string: 1 x 97mm 5 blade mill 1 x 73mm float sub 1 x 73mm mud motor 1 x 73mm circ sub/disconnect 2 x 73mm float subs 1 x 73mm cross over, 1 x 22.25mm "Q" profile nipple 1 x 60.3mm 10' pup joint 1 x 73mm PAC b cross over 1 x 73mm (Up) jar 1 x PAC b cross over 1 x 28.575mm "Q" profile nipple 1 x 60.3mm L-80 pup 1 x PAC b cross over 1 x SLH-90 cross over 60.3mm SLH-90 drill pipe to surface.  Filled tubing with each tier of pipe ran, tagged cement at 2,238.54mKB+/- with 231 joints in hole. Continued to rig in production equipment while running drill pipe in hole.
03:15	03:45	0.50	3.75	Made up anti torque/tubing swivel and circulating equipment onto tag joint.
03:45	06:00	2.25	6.00	Established forward circulation with clean, fresh water, 0.400m3/m with a tubing pressure of 14.0mpa. Gently lowered tubing string, milled out cement, noticed stringers only, picked up another tubing joint, with antitorque/swivel head and circulating equipment, tagged solid at 2244.6mKB+/- with 232 joints in hole. Re-established forward circulation, 0.400m3/m with a pressure of 14.0mpa. 04:50: Milled down to top of permanent bridge plug at 2250.0mKB+/- by tubing tally, continued to mill forward on plug. Monitored fluid levels in tanks and returns. 06:00: Compromised plug, monitored returns, day shift rig manager manned pump while day crew prepared to head to barge landing for crew change, continued to monitor volumes in tank, noticed gas to surface, stopped pump, shut in well, gas reading determined 5ppm H2S, high LEL and CO2 levels also, shut in casing pressure at 2,500kpa, secured well.
06:00	06:30	0.50	6.50	Released night shift and waited for day shift crew to arrive. Reviewed operations, turned over to day supervisor.
06:30	06:30		6.50	Waited for day shift to arrive from barge landing.

### Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)



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### Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status

### Tubing Components

Item Des	Top (mKB)

### Casing Strings

Csg Des	Grade	Wt/Len (kg/m)	Set Depth (mKB)
Surface	K-55	101.195	529.00
Intermediate	L-80 Hydril 563	43.157	2,500.00