



Daily Completion and Workover

PARA ET AL LIARD K-29A

Rig: Savanna Well Servicing

Business Unit: NE BC & NWT COU

Report Date: 9/16/2013

Report #: 4.0

Total AFE Amount: 1,145,300.00

AFE Number: 13N370094

Daily Cost Total: 80,203

Cum Cost to Date: 409,714

API/UWI 300K296030123300	Surface Legal Location	Field Name LIARD	License # 0001861
Well Configuration Type	Casing Flange Elevation (m)	Ground Elevation (m)	Original KB Elevation (m)
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 report. No incidents or accidents reported. Review and sign off on with personnel Paramount drug and alcohol policy. Moved in and spotted equipment from Paramount landing at KM 0. Moved in and spotted on mats Savanna service rig. Rigged in doghouse and rental class III accumulator. Stump tested BoP to a low 2.1 MPa & high of 35 MPa on all components. Removed well head and installed BoP. Tested ring seal/ blind rams against upper BP @ 57 mKB to 21 MPa. Good test.

Operations Next Report Period

Raise rig, Install & pressure test Precision snubbing unit. Unload drill pipe etc..

Road Condition Fair	Weather Rain	Start Date 9/13/2013	End Date
Head Count	Personnel Total Hours (hr) 34.0	Cum Personnel Total Hours (hr) 408.00	1,656.00

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
08:00	08:15	0.25	0.25	Daily walk around lease inspection/ lel check. No LeL's. Serviced and started service rig and equipment at KM 0 Paramount barge lay down area.
08:15	09:15	1.00	1.25	Pre trip safety meeting at barge landing. Travelled in convoy with Savanna service rig/ Support unit & dog house. 28 km uphill move.
09:15	09:45	0.50	1.75	Held daily safety meeting at well site with all personnel. Reviewed Paramount Safe Work Permit and contractor JSA's discussing daily activities. Conducted Paramount orientation with necessary personnel. All personnel reviewed and signed off on Paramount drug and alcohol policy. Discussed during safety meeting logistics of daily activities, current weather (raining) road & lease conditions, overhead lifts, pressure test requirements etc..
09:45	14:45	5.00	6.75	Rigged in remaining well site accommodations for medical and h2s safety personnel. Utilized bed truck to move in from barge landing 2 400 bbl tanks and mats. Hauled pipe and rig catwalk from barge landing to location with picker. Continued to dismantle deactivated high line for rig access. Secured end of high line with blanking flange.
14:45	16:15	1.50	8.25	Continue to rig in accumulator hoses etc. Stump tested 279 mm class III BoP's to a low 2.1 MPa and high of 35 MPa (60.3mm pipes & blind rams) Tested annular element to 21 MPa. All components test good. Checked 10 bottle (415 lt) system for pre charge pressures. All above minimum requirements. 21,000 kPa initial system pressure is reduced to 11,000 kPa after 3 functions. 3min-19 sec recharge time for system.
16:15	16:45	0.50	8.75	Flow check well. Good. Remove with picker and tag lines existing 5k flowing well head assembly.
16:45	17:15	0.50	9.25	Install stump tested class III BoP with new ring on casing bowl. Tighten down studs with hydraulic wrenches. Close and lock Blind Rams.
17:15	18:00	0.75	10.00	Re pressure test BoP blind rams/ ring connection against 114 mm BP @ 57 mKB to 21 MPa for 10 minutes. Good test. Secure the well and shut down for night.

Report Fluids Summary

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

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



Daily Completion and Workover

PARA ET AL LIARD K-29A

Rig: Savanna Well Servicing

Business Unit: NE BC & NWT COU

Report Date: 9/15/2013

Report #: 3.0

Total AFE Amount: 1,145,300.00

AFE Number: 13N370094

Daily Cost Total: 101,650

Cum Cost to Date: 334,050

API/UW 300K296030123300	Surface Legal Location	Field Name LIARD	License # 0001861
Well Configuration Type	Casing Flange Elevation (m)	Ground Elevation (m)	Original KB Elevation (m)
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 Report. No incidents or accidents reported. Continued to move and spot equipment on location. Able to use barge for 3.5 hrs today transferring 5 loads of equipment across river. Moved across river Service rig, dog house, catwalk, water for shacks, fuel, P- tank, rental equipment etc.

Operations Next Report Period

Pressure test 5k x 279mm BoP's and install on well. Rig in equipment where available.

Road Condition Good	Weather Clear	Start Date 9/13/2013	End Date
Head Count	Personnel Total Hours (hr) 25.0	Cum Personnel Total Hours (hr) 300.00	1,056.00

Daily Contacts

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

Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Comments
08:00	08:30	0.50	0.50	Walk around lease inspection/ LeI check. No LeI's. Held daily safety meeting/ contractor JSA review with all personnel. Discussed the days activities including river boat safety, wildlife, radio communications, use of spotters when loading and unloading of equipment.
08:30	12:30	4.00	4.50	Used Picker and bed truck to move and spot fuel skid, accumulator shack and various other pieces of rental equipment throughout morning.
12:30	17:30	5.00	9.50	Continued to await for arrival of barge on east side of river. Held a safety meeting with new personnel prior to loading barge for crossing.
17:30	20:30	3.00	12.50	Used a combination of winch tractors, bed trucks etc to facilitate loading of barge as efficiently as possible given the time allotted. Moved across river 2 additional well sites for accommodations, fuel truck, potable water truck, Service rig & dog house/ support unit, Testing vessel, rig pipe racks & catwalk, 2x 400 bbl tanks & 1 trailer of 60.3mm drill pipe. Moved 4 pickups including mud motor hand with drilling BHA to west side as well. Total of 5 full loads was loaded and transferred across river in approximately 3 hrs before nightfall. Next available barge run is same time Tuesday evening.

Report Fluids Summary

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

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



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Daily Completion and Workover

PARA ET AL LIARD K-29A

Rig: Savanna Well Servicing

Business Unit: NE BC & NWT COU

Report Date: 9/14/2013

Report #: 2.0

Total AFE Amount: 1,145,30

AFE Number: 13N370094

Daily Cost Total: 72,150

Cum Cost to Date: 232,400

API/UWI 300K296030123300	Surface Legal Location	Field Name LIARD	License # 0001861
Well Configuration Type	Casing Flange Elevation (m)	Ground Elevation (m)	Original KB Elevation (m)
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 Report. No incidents or accidents reported. Spotted equipment on location. Rigged in 2 wellsites and combo unit. Rigged in satalite communication system. Rigged in pump & tank. Removed well head temporarly to inspect tubing hanger threads. Assembled 5k x 11" BoP stack on test stump.

Operations Next Report Period

Continue to move equipment across river with barge.

Road Condition Good	Weather Clear	Start Date 9/13/2013	End Date
Head Count	25.0	Personnel Total Hours (hr) 300.00	Cum Personnel Total Hours (hr) 756.00

Daily Contacts

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

Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Com
08:00	08:30	0.50	0.50	Conduct daily walk around lease inspection/ LeI check. No LeI's. Held daily safety meeting reviewing contractor JSA's with all personnel. Discussed overhead lifts, use of tag lines, moving and spotting of equipment, H2s safety and concerns, wildlife, emergency response etc...
08:30	12:30	4.00	4.50	Utilized bed truck to move in, level and spot 2 well site shacks, safety combo containment/ generator unit, Rigged in light towers, generators etc. Set up FMC testing flare stack as per NEB, Paramount and OH&S specifications. Rigged in Satellite communications between well sites. Moved in picker to assist in disassembly and removal of pilings and staircases around well head.
12:30	14:30	2.00	6.50	Moved Savanna service rig pump and tank from staging area (28k) to location. Spotted equipment as per regulatory requirements. Moved in 22m3 fresh water from Liard river and transferred to rig tank.
14:30	16:30	2.00	8.50	Used picker to assemble McClelland 5k x 11" rental BoP stack on test stump. Torque down and check all connections. Ran BoP hoses to accumulator shack. Unable to function at this time due to Accumulator light plant on wrong side of river.
16:30	17:30	1.00	9.50	Flow check existing well head for pressure or presence of H2s. No pressure, LeI's or H2s present. Removed the well head studs and lifted the well head from the tubing head spool. Cleaned of the tubing hanger and retrieved #s for identification for hoisting equipment crossovers. Tubing hanger is 7.250 ACME top tapered to 114mm bottom section.
17:30	18:30	1.00	10.50	Re install well head, close valves, tighten and secure studs. Shut down for night. No barge time available for today.

Report Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Cum from Well (m ³)	Left to recover (m ³)

Perforations

Date	Zone	Top (mKB)	Blm (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



Daily Completion and Workover

PARA ET AL LIARD K-29A

Rig: Savanna Well Servicing

Business Unit: NE BC & NWT COU

Report Date: 9/13/2013

Report #: 1.0

Total AFE Amount: 1,145,300.00

AFE Number: 13N370094

Daily Cost Total: 160,250

Cum Cost to Date: 160,250

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) 5,000	Tubing Pressure (kPa) 0

Objective

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

Operations Summary

HSE report. No incidents or accidents reported. Conducted Paramount 2013 orientations with necessary personnel at Liard staging area. Reviewed Paramount Safe Work Permit # 22426 with All personnel. Discussed Barge loading, emergency response, road conditions, loading/ unloading procedure, use of spotters etc. Moved with barge to opposite side of river several pieces of equipment. 3hrs total barge time was available for use before nightfall.

Operations Next Report Period

Spot equipment currently racked on location. Remove barricades from well head. Assemble 11" 5k rental BoP stack on test stump.

Road Condition Good	Weather Clear	Start Date 9/13/2013	End Date
Head Count	Personnel Total Hours (hr) 38.0	Cum Personnel Total Hours (hr) 456.00	456.00

Daily Contacts

Title	Job Contact	Mobile
Office Supervisor	Lionel Larson	587-777-4526
Field Supervisor	Stephen Baggs	403-910-0347
Rig Manager	Ehren Getz	780-513-2432

Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Com.
11:00	11:30	0.50	0.50	Met with rig crew, equipment movers and safety personnel. Conducted Paramount contractor orientation with required personnel. Reviewed Paramount Safe Work Permit # 22426 and site specific emergency response/ transportation of injured worker plan. Discussed loading and unloading of equipment, road conditions, radio usage in convoy, wildlife awareness, usage of spotters etc. Discussed Paramount drug and alcohol policy & barge general safety as well.
11:30	17:00	5.50	6.00	Continued to move in and rack rental equipment while awaiting barge arrival. Conduct orientations and review JSA's with new personnel as required.
17:00	21:00	4.00	10.00	Move across river and rack on west side landing via barge. Moved across west side pick-ups for travel, ETV, 2 wellsite trailers, Picker & Bed truck, fuel skid, Air trailer, Washroom combo unit, light towers & Rig pump with tank. NOTE: Landings had to be repaired on west side of river with hoe and cat due to drop in river water levels. Total barge time available approximately 3.5 hrs.

Report Fluids Summary

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

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