

CHANGE OF WELL STATUS

This form must be filed with the Office of the Regulator of Oil and Gas Operations within 30 days of a change in well status.

INSTRUCTIONS:

Send one electronic copy of this form by email to orogo@gov.nt.ca. If you wish to communicate with OROGO in hard copy, please do so using the courier address found at www.orogo.gov.nt.ca.

WELL INFORMATION

Well Name	Anadarko Liard P-16	Operator	Canadian Natural Resources
Well Identifier (WID)	1976	Unique Well Identifier (30xx...)	300/P-16-60.30-123.30/00

STATUS INFORMATION

Effective Date: 7/04/2024

Well Type:	Other
If other, specify:	Exploratory - non-produced
Well Mode:	Abandoned
If other, specify:	
Other:	
If other, specify:	

Fluid Production: (choose all applicable)

Not applicable	<input checked="" type="checkbox"/>	Steam	<input type="checkbox"/>
Crude Oil	<input type="checkbox"/>	Air	<input type="checkbox"/>
Gas	<input type="checkbox"/>	Carbon Dioxide	<input type="checkbox"/>
Water	<input type="checkbox"/>	Nitrogen	<input type="checkbox"/>
Brine	<input type="checkbox"/>	Liquefied Petroleum Gas	<input type="checkbox"/>
Acid Gas	<input type="checkbox"/>	Bitumen	<input type="checkbox"/>
Solvent	<input type="checkbox"/>	Other	<input type="checkbox"/>

"I certify that the information provided on this form is true and correct"

Name	James Ireland	Phone	(403) 386-5955 Ext
Title	Manager, Abandonment	E-Mail	James.Ireland@cnrl.com
Operator	Canadian Natural Resources		
Signature	Date _____		
	Responsible Officer of Company _____		



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 1.0

7/10/2023 07:00 to 7/10/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 1,773	Tubing Pressure (kPa) 0
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

Move rig and support equipment and all other equipment on barge haul across river to loc. Spot all equipment, testers spot rig stood derrick. SITP zero kpa BPV in hanger. SICP 1773 kPa, SIIC 4019 kPa. Checked for H2S on csg and intermediate csg zero H2S. Swept lease for GM - no GM readings present.

Time Log

Start Time	Dur (hr)	Com
07:00	2.00	07:00hrs. Held safety meeting with Barge operator. Load rig and support equipment and testers equipment including pickups on to barge haul across Liard river. Moved equipment to location. Spotted dog house, wells site trailer and pump and tank. Highway 77 open and closed due to wildfires and smoke along highway in bc. Remaining equipment traveling from Fort Nelson.
09:00	0.50	Filled out hazard assessment, JSA'S and TIWEP. Reviewed hazard assessment with all personal on location. Discussed hazards of each operation and reviewed sop's. Hazards Line of fire, swing path, over head loads, high pressure lines, Discussed muster points dog house and lease entrance or up wind. Use spotter for moving any equipment, tag lines. Bump tested personal LEL monitor.
09:30	9.50	Spot pump and tank, p-tank and flare stack. Function Gas rover and conducted seep around wellhead in cellar for gas migration no LEL'S. Did 10 min bubble test on SCV no bubbles. Checked wellhead pressure zero kPa, SICP 1773 kPa, SIIC 4019 kPa. Held safety meeting with truckers. Unload and spot remaining equipment. Spot rig stood derrick and secured. Rigged in equipment to CNRL, OROGO rules and regulations. Rigged in mesh guard system and function test. Had safety hand pickup and checked for H2S on csg and intermediate csg zero H2S. Secured well. 19:00hrs. SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Daily Fluids Summary				Operational Supervisors	
Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Contact	Title
				Roy Craft	Wellsite Supervisor
				Jason Tymo	Superintendent
				Doug Donnelly	Rig Manager
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 2.0

7/11/2023 07:00 to 7/11/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 1,773	Tubing Pressure (kPa) 6,000
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

Continued rig in equipment. Make up 88.9mm Lubricator pressure test to 28000kPa & screw into BPV. Had 6000kPa below BPV. Screw out BPV from dognut & Lubricate out 88.9mm back pressure valve from tbg hanger. Bled off pressure to p-tank no H2S. MIRU Slickline. Purged and pressure tested lubricator to 21000 kPa. Bled down to 6000 kPa. RIH with 72.6mm gauge ring and tag slip stop at 70.2mKB. RIH with 89.0mm SB to retrieve slip stop had 50 lbs over pull. POOH. No slip stop. RIH with SB tool again. POOH tool was full of hydrate. RIH with tool again jarred down hard 20 times No over pull. POOH tool full of hydrate again. Checked precharge pressures on accumulator function tested bop's. Stump tested bop's.

Time Log

Start Time	Dur (hr)	Com
07:00	1.00	07:00hrs. Service and started equipment. Held safety meeting with all personal. Filled out and reviewed hazards of each task on location. Line fire, swing path, high pressure lines, over head loads, energized equipment, rotating shives, possible H2S,
08:00	2.00	Continued rig in equipment, Function tested E-Kills, crown saver, check break linkage.
10:00	2.00	Rigged in Stream flo. Make up 88.9mm Lubricator pressure test to 28000kPa & screw into BPV. Had 6000kPa below BPV. Screw out BPV from dognut & Lubricate out 88.9mm back pressure valve from tbg hanger. Bled off pressure to p-tank no H2S. Shut in & secure well. Rig out Stream Flo crew.
12:00	2.00	MIRU slickline unit. Purged and pressure tested lubricator to 21000 kPa. Bled down to 6000 kPa. RIH with 72.6mm gauge ring and tag slip stop at 70.2mKB. RIH with 89.0mm SB to retrieve slip stop had 50 lbs over pull. POOH. No slip stop. RIH with SB tool again jarred down hard 12 times. POOH tool was full of hydrate. RIH with tool again jarred down hard 20 times No over pull. POOH tool full of hydrate again. Notified Dale Duffy. Rig out slickline and secured well.
14:00	5.00	Checked precharge pressures on 8 accumulator bottles 7000 kPa each. 4 N2 bottles avg pressure 14000 kPa, Started pressure 18000 kPa, close blind rams 3 sec, close pipe rams 3 sec, close annular 18 sec. Final pressure 14200 kPa. Recharge time 33 sec. Stump tested blind rams 1400 kPa low and 34000 kPa high, 88.9mm piperams 1400 kPa, Annular 1400 kPa low and 7000 kPa high all 10 min each. Minimum 12hrs per day. SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water				Roy Craft	Wellsite Supervisor
				Jason Tymo	Superintendent
				Doug Donnelly	Rig Manager
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 3.0

7/12/2023 07:00 to 7/12/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 1,767	Tubing Pressure (kPa) 5,736
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

Checked SITP 5736kPa, SICP 1767kPa, SIIC 3789kPa.. Orogo did rig inspection and inpection on all services on location.

Time Log

Start Time	Dur (hr)	Com
07:00	1.00	07:00hrs. Held safety meeting withn all personal on location including OROGO Mike and Brandon. Filled out JSA'S for task today and reviewed. Note shut down waiting on CTU. Slips, trips, pinch points, swing path, line fire, H2S.
08:00	11.00	Checked SITP 5736kPa, SICP 1767kPa. Orogo doing rig inspection and inspection on all other services on location. All services passed inspections. Secured well. 12:00hrs SDFN. Min 12hrs/day

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Daily Fluids Summary				Operational Supervisors	
Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Contact	Title
Fresh Water	0.00	0.00		Roy Craft	Wellsite Supervisor
				Jason Tymo	Superintendent
				Doug Donnelly	Rig Manager
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 4.0

7/13/2023 07:00 to 7/13/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00 Weather Smoky Temperature (°C) 28

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

Waited on CTU and support equipment including hot oiler. Spot equipmented install coil bop's function tested bop's.

Time Log

Start Time	Dur (hr)	Com
07:00	9.00	Waiting on CTU from FSJ and support equipment with hot oiler and tank truck with methanol water. 16:00hrs.
16:00	0.25	Held safety meeting with all personal on location. Filled out JSA'S for task today and reviewed. Slips, trips, pinch points, swing path, line fire, over head loads
16:15	2.75	Removed wellhead cap insalled c/o flange for coil. Spot picker installed bop's. Spotted coil unit and accumulator unit. Function tested bop's. Spot hot oiler. Secured well. 18:30hrs SDFN.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.50	0.00	0.50	Roy Craft	Wellsite Supervisor
Methanol Water				Jason Tymo	Superintendent
Methanol/water	0.30	0.00	0.30	Doug Donnelly	Rig Manager
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 5.0

7/14/2023 07:00 to 7/14/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 6,722	Tubing Pressure (kPa) 5,736
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

SR: POOH tubing only

Daily Operations Summary

Rigged in CTU and flush coil. PT bop's and coil to 28000kPa. RIH tagged hydrate at 64mcf circulated down 60C 30/70 methanol water total 2.50m3. POOH rig off coil equipment. Rigged in slickline pressure tested lubricator each run 10000kPa. RIH to pull slip spot can't latch on. Ran impression block seen impression on other edge of plug. RIH knocked out kobe sub tbg 8850kPa. RIH pulled G packoff. Ran in hole pulled slip stop. RIH with 72.6mm GR to plug at 2965.0mKB. POOH. Bled tbg off to zero monitored 10 min dead. Bled off intermediate csg 3786kPa to zero no change on csg 6722kPa. Bled off csg to zero. Installed Alicat on intermediate csg flow rate 14.35e3m3/d - 4.35e3m3/d 30min. PT tbg 7000kpa - 4100kpa 10min. PT csg 7000kPa 10 min solid test. Rig out floor secured well.

Time Log

Start Time	Dur (hr)	Com
07:00	1.00	07:00hrs Serviced and started equipment. Held safety meeting with all personal on location. Filled out JSA'S and reviewed procedures and hazards for tasks today. Coil equipment, rotating equipment, high pressure lines, swing path, overhead loads, hot fluids, methanol water mixed, pinch points, line fire, H2S, weather conditions. Discussed muster points escape routes.
08:00	4.00	Rigged in testers line with ESD to wing valve on wellhead. Rigged in hot oiler to coil bop's pressure tested to 1400kPa and 28000kPa 10 min. Stabbed coil through injector installed coil connector pull tested to 9000 dAN's. Filled and flushed coil with 0.50m3 fresh water followed with 1.4m3 30/70 methanol water. Installed jetting nozzle on 6.35mm coil connector. Stab injector on to bop's with 1 section of lubricator. Pressure tested coil and testers line to manifold to 28000kPa. Bled pressure down to 7000kPa open tbg pressure 5780kPa. Run hole to 63.5mcf and tagged. Started pumping 30/70 methanol water at 60C. Coil tbg pressure 14000kPa rate 50L/min. Tbg shut at manifold. Tbg pressure at 7000kPa and dropped to 6000kPa. Pumped 0.25m3 fluid pressure started to increase at manifold to 8000kPa open manifold to maintain 6000-7000kPa on tbg. Had some burnables to surface before seeing fluid. Pumped total of 2.50m3 fluid. POOH with coil shut in tbg. Rig off coil and remove bop's.
12:00	4.25	MIRU slickline unit. Install bop's and lubricator purged and pressure tested to 21000kPa. Ran in hole with 89.0mm SB to receive slip stop. Jarred down 10 times no latch. POOH not slip stop. Ran in hole with impression block jarred down once pooh. Had impression top of G packoff plug. Ran in hole with Kubes knock out tool tbg 9965kPa jarred down and sheared kubes tbg pressure dropped to 9540kPa. POOH. Ran in hole with RB pulling tool latched on to plug at 70.0mKB jarred several times and pulled G packoff. Ran in hole with SB tool latched on to slip stop and jarred free pooh. Got surface and found there was slips stop below plug. Ran in hole with 72.6mm GR to 2965.0mKB tagged plug in on/off tool. POOH. Installed cap on flow tee. SITP 8850kPa open to p-tank and bleed tbg off to zero pressure. Did negative test for 10 min tbg dead. Shut in for 10 min built up to 56kPa. Rig out slick line.
16:15	2.75	Shut in intermediate csg 3786kPa. Rig testers line into intermediate csg bled pressure off to zero left open for 10 min. SICP 6722kPa no change when intermediate csg was bled off. Bled off csg to zero dead. Installed Alicat on intermediate csg starting flow rate was 14.35e3m3/d in 30 min at 4.17e3m3/d. Filled tbg with 0.50m3 fresh water pressurized up to 7000kPa bleeding down slowly bumped up 4 times to 7000kPa 10 min 4100kPa. Bled off pressure. Pressure tested csg to 7000kPa 10 min held solid test. Bled off pressure. Rigged out floor secured well. 19:00hrs

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	0.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 6.0

7/15/2023 07:00 to 7/15/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 2,652	Tubing Pressure (kPa) 4,000
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

Checked SITP 4000kPa, SICP 2652kPa, SIICP 990kPa. Bled off intermediate csg to zero left open, bled off csg to zero left open. Removed wellhead installed pup jt and safety valve. Strip on bop's and pressure tested 1400kPa low and 3400kPa high 10 min each. Rigged in floor, tongs. Tried to come off packer with on/off tool pulling to 52000dAN'S no luck waited on toolhand tried again same results .MIRU E-Line ran in hole with jet cutter tagged plug jet cut tbg at 2964.50mKB. No indication of cutters firing. POOH cutter did fire. Rigged off e-line. Tried to shear cut pulling to 52,000dAN'S no success. Intermediate csg flow rate of 0.457e3m3/d. Secured well. Left intermediate csg open over night.

Time Log

Start Time	Dur (hr)	Com
07:00	1.50	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, overhead loads, pinch points, Working with possible H2S. Use buddy system, bump test personal 4 head monitor and H2S monitors. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars. Stay hydrated take extra breaks drink extra water.
08:30	1.50	Checked SITP 4000kPa, SICP 2652kPa, SIICP 990kPa. Bled off intermediate csg to zero left open, bled off csg to zero left open, bled off tbg to zero. Had trace of burnables no H2S. Tbg venting. Removed top section of wellhead. Installed 88.9mm CS hydrl 533 x 88.9mm EUE c/o with 3m pup jt. Tbg stared slugging fluid shut in. Strip on class 3 bop's, rig in floor, stairs, hand railings and tongs. Pressure tested ring gasket at pipe rams 1400kPa low and 3400kPa high 10 min each.
10:00	3.00	Latched on to tbg tried to find free point on/off tool pulling up to 52000 dAN'S. Put left hand torque in tbg and and try work to bottom. Jarred tbg up and down several times and continued try and come off packer no success. Notified Jason while waiting for tool hand and wireline unit. Rig testers line into tbg shut in pressure 2200kPa. Open up and bleed off to zero no H2S. Monitored tbg for 1.5 hrs slugging fluid off and on recovered 1.25m3 fluid with steady slight blow. Toolhand arrived on location held safety meeting. Tried to find free point again and working tbg string and try come off packer with no success. Notified Jason to get approval from OROGO to jet cut tbg.
13:00	0.50	Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, overhead loads, pinch points, Working at hieghts. Rotating equipment don't walk under wireline between well and truck. If using ladder make it is secured with straps and someone holding ladder. Checked wireline supervisors blasters ticket. Use tag lines at all times. Review sop for wireline work. Checked all phones and turned off. Discussed muster point and escape routes. If cutter fails pull to 100m hold safety meeting with all personal.
13:30	5.50	MIRU Reliance wireline unit. Pulled tbg string into 2000 dAN'S tension. Rig in wireline bop's and pump line on to flowtee. Pressure tested lubricato to 7000kPa. RIH with jet cutter tagged plug at 2965.70mKB. Jet cut tbg at 2964.50mKB. Had no indication that cutter fired. Had no change on tbg or csg. Pulled too 100m had safety meeting. Pulled tools to surface cutter did fire. Rigged off e-line. Pulled up to 52,000dAN'S jarred tbg several times try and shear off at cut. No success notified Jason. Noyte intermediate csg was open all day installed Alicat had flow rate of 0.457e3m3/d. No H2S. Secured well. 19:00hrs SDFN.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	0.50	Roy Craft	Wellsite Supervisor
Methanol Water				Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 7.0

7/16/2023 07:00 to 7/16/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB)		3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 570	Tubing Pressure (kPa) 4,400
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

Checked SITP 4422kPa, SICP 570kPa, Intermediate csg was left open over night. Installed Alicat had flow rate of 1.431e3m3/d. Rigged in e-line Pured and pressure tested lubricator to 7000kPa. Open tbg and bled off to zero pressure. Ran and cut tbg again at 2964.50mKB. Had no change on csg or tbg. Rigged off e-line. Worked tbg string to 60,000dAN'S no change.

Time Log

Start Time	Dur (hr)	Com
07:00	1.00	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, overhead loads, pinch points, Working at heights. Working with possible H2S. Use buddy system, bump test personal 4 head monitor and H2S monitors. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars. Stay hydrated take extra breaks drink extra water.
08:00	3.00	Checked SITP 4422kPa, SICP 570kPa, Intermediate csg was left open over night. Installed Alicat had flow rate of 1.431e3m3/d. Pulled tbg up to 42,000dAN'S. Rigged in e-line Pured and pressure tested lubricator to 7000kPa. Open tbg and bled off to zero pressure no fluid recovered. Ran in hole with jet cutter to plug at 2965.71mKB. Jet cut tbg again at 2964.50mKB. Had no change on csg or tbg. Pulled to 100m held tail gate meeting. Pulled to surface shut in tbg. Cutter did fire. Rigged off e-line. Worked tbg string to 60,000dAN'S no change. Notified Calgary. Secured well.
11:00	8.00	Waiting on approval from Orego. Approval Received. Wireline only had 2 Jet Cuts - WO Wireline. Minimum hrs 12hr/d. Rig crew servicing equipment and cleaning.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	0.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 8.0

7/17/2023 07:00 to 7/17/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 2,205	Tubing Pressure (kPa) 5,600
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

SR: POOH tubing only

Daily Operations Summary

Checked SITP 5600kPa, SICP 2205kPa, Rigged in e-line. Ran in hole with jet cutter and at 2944mKB. Had no change on csg or tbg. POOH. Rigged off e-line. Worked tbg string to 68,000dAN'S no change. Pressured up csg to 14000kPa 3 times Pressure dropped to 5000kPa. Circulated well to fresh water 50m3. Seen 1.2% H2S at p-tank. Had thick dark returns looks like drilling mud. POOH with total 63jts tbg. Pumped 1.20m3 fresh water while pulling pipe. Secured well.

Time Log

Start Time	Dur (hr)	Com
07:00	1.00	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, overhead loads, pinch points, Working at heights. Working with possible H2S. Use buddy system, bump test personal 4 head monitor and H2S monitors. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars. Stay hydrated take extra breaks drink extra water.
08:00	3.50	Checked SITP 5600kPa, SICP 2205kPa, Rigged in e-line Pured and pressure tested lubricator to 7000kPa. Open tbg and bled off to zero pressure no fluid recovered. Ran in hole with jet cutter and at 2944mKB. Had no change on csg or tbg. Pulled to surface shut in tbg. Cutter did fire. Rigged off e-line. Worked tbg string to 68,000dAN'S no change. Notified Calgary.
11:30	2.75	Rigged pump line into csg and testers line into tbg. Pressure up csg to 14000kPa bleed off to rig tank. Pressured up to 14000kPa fast and shut down watched 2min pressure dropped to 5000kPa. Started pumping down csg at 0.56m3/min at zero pressure. Had returns to testers. Circuated total of 50m3 of fresh water. Had sour returns at p-tank 1.2% H2S. Sucked back on tbg for 5min and monitored well dead.
14:15	4.75	Pull and lay down tbg hanger and pin x pin cs hydrl pup jt. Pull out of hole laying down 50 jts 88.9mm cb 533 hydrl tbg. Topped off well with 1.20m3 frsh water. Pulled another 13 jts tbg started flowing. Pumped 1.0m3 water down tbg bled off csg and bled off tbg. Well dead. Secured well. 19:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors	
				Contact	Title
Fresh Water	52.00	0.00	52.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager
Other	0.00	50.00	-50.00		
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 9.0

7/18/2023 07:00 to 7/18/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 4,509	Tubing Pressure (kPa) 3,381
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

SR: POOH tubing only

Daily Operations Summary

Bled csg and tbg off to zero. POOH 100 jts. Csg started slugging fluid and died. Pulled another 20jts csg started slugging again. Circulated total of 20m3 seen 22ppm H2S. Tbg on slight vacuum csg venting monitored for 15min. Pulled another 25 jts csg and tbg started slugging fluid again.. Circulated 2 holes volumes for 1000m 30m3. Tbg slight vacuum csg slugging off and on. Trucks unloaded 73mm tbg and loaded 210jts 89mm tbg. Pulled another 33 jts. Well started flowing again. Shut in and secured well. Rigged in vent nanny.

Time Log

Start Time	Dur (hr)	Com
07:00	1.25	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, overhead loads, pinch points, working with possible H2S. Use buddy system, bump test personal 4 head monitor and H2S monitors. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars. Stay hydrated take extra breaks drink extra water.
08:15	0.75	Checked SITP 3381kPa, SICP 4509kPa. Bled off csg to p-tank. Bled tbg off to p-tank no H2S. Monitored for 10 min well dead.
09:00	3.25	Continued to pull and lay down tbg. Top off well while tripping out Pulled 100jts. Csg started slugging fluid and died. Pulled another 20jts csg started slugging again.
12:15	1.50	Shut in well rig in lines to circulate well down tbg return to p-tank. Estimated tbg depth 1230m. Circulated total of 20m3 seen 22ppm H2S. Tbg on slight vacuum csg venting monitored for 15min.
13:45	1.00	Pulled another 25 jts csg and tbg started slugging fluid again. Shut in well.
14:45	1.50	Rigged pump lines to circulate down tbg return to rig tank. Circulated 2 holes volumes for 1000m 30m3. Tbg slight vacuum csg slugging off and on. Trucks unloaded 73mm tbg and loaded 210jts 89mm tbg.
16:15		Pulled another 33 jts. Well started flowing again. Shut in and secured well. Rigged in vent nanny. 19:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors	
				Contact	Title
Fresh Water	2.50	0.00	55.00	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager
Other	0.00	0.00	-50.00		
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 10.0

7/19/2023 07:00 to 7/19/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 5,161	Tubing Pressure (kPa) 4,986
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

WL: Radial bond Log

Daily Operations Summary

Bled off well monitored for 10 min. POOH lay down 88.9mm hydrl tbg total 209 jts. Rig in wireline. Ran in hole with 146mm gauge ring junk basket tagged obstruction at 2924.50mKB was tight. POOH. RIH with 177.8mm 10K PBP set c/e 2890.0mKB. Well was open to p-tank flowed back 1.50m3 fluid. POOH rig off wireline. Filled hole with 4.5m3 fresh water pressured up to 7390kPa. Monitored for 2hrs final pressure 9519kPa. Note Calgary watching vent nanny. Bled off pressure to zero recoved 1.0m3 fluid back. Pumped 1.0m3 down csg shut in well. Secured well.

Time Log

Start Time	Dur (hr)	Com
07:00	1.00	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, overhead loads, pinch points, working with possible H2S. Use buddy system, bump test personal 4 head monitor and H2S monitors. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars. Reviewed procedures for shutting well in the event starts flowing and warning signs. Rviewed 7 steps for H2S release.
08:00	0.50	Checked SITP 4986kPa, SICP 5161kPa. Rigged in line to p-tank bled off csg to zero, bled off tbg to zero. Monitored for 10min both slight venting.
08:30	1.75	Pulled out of hole laying down tbg. Total jts 209 jts and cut jt. Last 4 jts had what looked like cement on out side.
10:15	1.00	Rigged in wireline unit. Installed flange, wireline bop's and lubricator. Pickup and stabbed on well. Rigged line into csg to p-tank and open csg slight blow.
11:15	1.00	Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, overhead loads, pinch points, rotating sheaves, hand placement. working with possible H2S. Know muster points and plan escape routes.
12:15	4.00	Pressure tested lubricator to 7000kPa 10min. Ran in hole with 146mm gauge ring junk basket tagged fluid level at 68mKB. Tagged obstruction at 2924.50mKB was tight. POOH. Pressure tested lubricator to 7000kPa. Ran in hole with 177.8mm 10K PBP. Logged on depth set c/e 2890.0mKB. Well was open to p-tank. Packoff was leaking had to constantly pump it up. Well flowed back 1.50m3 fluid. Pulled out of hole lay down tools.
16:15	2.25	Filled hole with 4.5m3 fresh water pressured up to 7390kPa. Good test on PBP. Monitored for 2hrs final pressure 9519kPa. Note Calgary watching vent nanny. Bled off pressure to zero recoved 1.0m3 fluid back. Pumped 1.0m3 down csg shut in well. Secured well. 19:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors	
				Contact	Title
Fresh Water	4.50	0.00	59.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager
Other	0.00	0.00	-50.00		
				Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 11.0

7/20/2023 07:00 to 7/20/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 1,630	Tubing Pressure (kPa) Set Depth (MD) (mKB) 2,992.00
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Weather Clear

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

Checked SICP 1600kPa bled off to p-tank well dead. Rigged in wireline picked up and ran in hole with RBL tools. Fluid is to gassify for tools reach depth of 1322mKB. POOH rigged out wireline. Changed pipe rams to 73mm. Tally and drift in hole with 116 jts 73mm L-80 tbg tagged bridg plug at 2890.0mKB. Spaced out with 4 jts land tbg 0.50m above plug. Secured well.

Time Log

Start Time	Dur (hr)	Com
07:00	1.00	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, pinch points, rotating equipment, suspended loads, line fire when drifting tbg. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars.
08:00	1.50	Checked SICP 1600kPa bled off to p-tank well dead. Rigged in wireline picked up and ran in hole with RBL tools. Fluid is to gassify for tools reach depth of 1322mKB. POOH rigged out wireline.
09:30	9.50	Changed pipe rams to 73mm. Tally and drift in hole with 116 jts 73mm L-80 tbg tagged bridg plug at 2890.0mKB. Spaced out with 4 jts land tbg 0.50m above plug. Secured well. 19:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors		
				Contact	Title	
Fresh Water			59.50	Roy Craft	Wellsite Supervisor	
Methanol Water	0.00	0.00		Jason Tymo	Superintendent	
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager	
Other	0.00	0.00	-50.00			
Produced Water				Contractor Precision Well Servicing	Rig Number 126	
				Rig Manager Doug Donnelly		

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 12.0

7/21/2023 07:00 to 7/21/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 76	Tubing Pressure (kPa) 42
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

WL: Radial bond Log

Daily Operations Summary

Circulated to fresh water 60.0m3. Spotted and rigged in Charger c/a unit and bulker. Rig into tbg and testers line on csg. Broke circulation 400L/min at 0.6m3, 5000kPa. Pressure test iron to 16000kPa no leaks. Mixed up 1.0m3 of Thermal 40 1800 kg, Total pumped 9.6m3. Bled off csg rigged out cemeters. Pulled 3 pup jts and 8 jts tbg. Backwash tbg with 14.0m3 fresh water. Cement top 2839.75mKB. POOH laying down 298 jts. Filled hole 4.5m3 while tripping. Secured well.

Time Log

Start Time	Dur (hr)	Com
07:00	0.75	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, pinch points, suspended loads. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars.
07:45	1.50	Checked SITP 42kPa, SICP 76kPa. Rig pump line into csg and testers flow line in to tbg. Circulated well over to fresh water 60.0m3 at 7000kPa, 0.70m3/min. Seen 4000ppm H2S at p-tank.
09:15	1.25	Spotted and rigged in Charger c/a unit and bulker. Rig into tbg and testers line on csg. Broke circulation 400L/min at 0.6m3, 5000kPa. Pressure test iron to 16000kPa no leaks. Mixed up 1.0m3 of Thermal 40 1800 kg, with CHRT-H 0.8%, CHFL-1 0.15%, CHFR-1 0.05%, CHDF-P 0.2%. Displaced to bottom at 450L/min at 5000kPa with 8.0m3 fresh water holding 2600kPa back pressure on csg. Total pumped 9.6m3. Bled off csg rigged out cemeters. Pulled 3 pup jts and 8 jts tbg. Rig pump lines into tbg and csg backwash tbg with 14.0m3 fresh water. Cement top 2839.75mKB.
10:30	7.00	Pooh laying down 298 jts total 306 jts. Filled well with 4.50m3 fresh water while tripping. Secured well. 17:30hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors	
				Contact	Title
Fresh Water	125.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 13.0

7/22/2023 07:00 to 7/22/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00 Weather Clear Temperature (°C) 23

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

MIRU wireline. Rig up RCBL tools. RIH high speed down to 2833.2mK Log main pass to surface. Repeat with 7000kPa pressure pass. Rig out wireline. Put 7000kPa on well and shut in. Secured well.

19:00hrs SDFN

Time Log

Start Time	Dur (hr)	Com
07:00	0.75	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, pinch points, suspended loads. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars.
07:45	11.25	MIRU wireline. Rig up RCBL tools. RIH high speed down to 2833.2mK Log main pass to surface. Repeat with 7000kPa pressure pass. Rig out wireline. Put 7000kPa on well and shut in. Secured well. 19:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 126
				Rig Manager Doug Donnelly	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 14.0

7/23/2023 07:00 to 7/23/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 7,000	Tubing Pressure (kPa) Set Depth (MD) (mKB) 2,992.00
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Weather Overcast

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

Checked SITP 7000kPa. Took up to 10000kPa. Waiting on OROGO. Secure well.

15:30hrs SDFN

Time Log

Start Time	Dur (hr)	Com
07:00	0.75	07:00hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, pinch points, suspended loads. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars.
07:45	11.25	Checked SITP 7000kPa. Took up to 10000kPa. Waiting on OROGO. Secure well. 15:30hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors		
				Contact	Title	
Fresh Water			184.50	Roy Craft	Wellsite Supervisor	
Methanol Water	0.00	0.00		Jason Tymo	Superintendent	
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager	
Other	0.00	0.00	-50.00			
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 126	
				Rig Manager Doug Donnelly		

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 15.0

7/24/2023 07:00 to 7/24/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Muddy	Weather Light rain

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

Rigged out pump and tank. Removed bop's installed 179mm orbit valve. Rigged out rig and all equipment. Had trucks load 73mm workstring. Had vac truck clean out sludge in 64m3 tank. Secured well.

Time Log

Start Time	Dur (hr)	Com
07:00	5.50	07:00hrs to 09:30hrs waited on fog to clear. Wellsite supervisor arrived on location at 12:30hrs due to truck hitting bridge at km4. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, high pressure lines, pinch points, suspended loads. Know muster points and plan escape routes. Use 3 point contact at all times. CNRL 4 pillars.
12:30	6.50	Rigged out pump and tank. Removed bop's installed 179mm orbit valve. Rigged out rig and all equipment. Had trucks load 73mm workstring. Had vac truck clean out sludge in 64m3 tank. Secured well. 17:30hrs SDFN. Rig is released.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors		
				Contact	Title	
Fresh Water			184.50	Roy Craft	Wellsite Supervisor	
Methanol Water	0.00	0.00		Jason Tymo	Superintendent	
Methanol/water	0.00	0.00	0.30	Doug Donnelly	Rig Manager	
Other	0.00	0.00	-50.00			
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829	
				Rig Manager Anthony Klimm		



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 16.0

7/25/2023 09:30 to 7/25/2023 17:30

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Muddy	Set Depth (MD) (mKB) 2,992.00 Weather Rain Temperature (°C) 15

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

Traveled from barge to location with Renegade. Waited on wireline to finish at Paramount location. MIRU wireline. Installed flange on 179mm orbit valve. RIH with 155.0mm gauge ring junk basket to 2845.2mKB. POOH. Function tested expansion tool on surface. Took 4 high pressure gas samples from intermediate csg. Secured well.

Time Log

Start Time	Dur (hr)	Com
09:30	2.50	Traveled from barge to location with Renegade. Waited on wireline to finish at Paramount location.
12:00	0.25	Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, pinch points, suspended loads rotating sheaves.
12:15	5.25	MIRU wireline. Installed flange on 179mm orbit valve. RIH with 155.0mm gauge ring junk basket to 2845.2mKB. POOH. Broke cablehead off ccl noticed grease was white instead of red. Broke cable head apart found grease was pushed out rebuilt cablehead. Function tested expansion tool on surface. Took 4 high pressure gas samples from intermediate csg. Secured well. 17:30hrs SDFN. Gas cylinder numbers 04000580, 05004585, 07000981, 13001435.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30		
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 17.0

7/26/2023 07:00 to 7/26/2023 20:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Muddy	Set Depth (MD) (mKB) 2,992.00 Weather Rain Temperature (°C) 15

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

Rig up Reliance wireline check all connections with Renegade expansion tool (good) Make up 177.8mm Expansion tool & function test (good) RIH with Casing Expansion tool 60 M minute in hole to 2800mKB. Correlated on depth to RBL.
 Expansion #1 top 2759.5mKB, middle 2759.8mKB, bottom 2760.1mKB.
 Expansion #2 top 2756.5mKB, middle 2756.8mKB, bottom 2757.1mKB. POOH cool tool and grease.
 RIH to 2800.0mKB log into position.
 Expansion #3 top 2747.5mKB, middle 2747.8mKB, bottom 2748.1mKB. Pulling to 1000m to cool down tools lost tools at 1283mKB. Pulled out of cable head at 2122lbs. Layed down lubricator. Cut off 250m wireline rebuild cable head.
 RIH with 73.0mm bull plug and swedge to 60.3mm on 83.0mm sinker bar. Tagged tools at bottom off hole. POOH layed down tools. Install 2 more sections of lubricator. Made up tool string for morning. Secured well.

Time Log

Start Time	Dur (hr)	Com
07:00	0.25	Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, pinch points, suspended loads rotating sheaves, muddy location, slippery conditions, use proper lifting techniques.
07:15	12.75	Rig up Reliance wireline check all connections with Renegade expansion tool (good) Make up 177.8mm Expansion tool & function test (good) RIH with Casing Expansion tool 60 M minute in hole to 2800mKB. Correlated on depth to RBL. Expansion #1 top 2759.5mKB, middle 2759.8mKB, bottom 2760.1mKB. Log on depth Expansion #2 top 2756.5mKB, middle 2756.8mKB, bottom 2757.1mKB. 10:40hrs POOH cool tool and grease. 12:45hrs RIH to 2800.0mKB log into position. Expansion #3 top 2747.5mKB, middle 2747.8mKB, bottom 2748.1mKB. Temperature is affecting tools. 14:30hrs Pulling to 1000m to cool down tools at 15:00hrs was pulling at 68-70m/min. Lost tools at 1233m for some reason. Pulled out of cable head at 2122lbs. 15:45hrs At surface. Layed down lubricator. Cut off 250m wireline rebuild cable head. RIH with 73.0mm bull plug and swedge to 60.3mm on 83.0mm sinker bar. Tagged tools at bottom off hole. POOH layed down tools. Install 2 more sections of lubricator. Made up tool string for morning. Secured well.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30		
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 18.0

7/27/2023 07:00 to 7/27/2023 20:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Muddy	Set Depth (MD) (mKB) 2,992.00 Weather Smoky Temperature (°C) 14

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

Rigged up slickline tool string. Ran in hole with overshot with 52.0mm grapple. Spang down onto fish 8 times. Started to pull out of hole had 3100 lbs. Got to 2812m pulling 8m/min weight was 2600 lbs and lost tools. Ran back down jarred down for 15min started to pull up and sheared JUC. POOH. Retied new cable head. RIH with 3" JDC worked up and down to get latched on. Latched on and pulled out of hole at 25m/min. Layed down tools. Rigged out extra lube retied cable head. Function tested tools won't stroke out. Function tested new tools work 100%. Secured well. Rigged out wireline truck will be swapping units tommorow morning

Time Log

Start Time	Dur (hr)	Com
07:00	2.50	07:00hrs to 09:00hrs. Waited on fog to lift so river boat could cross river. Traveled to location.
09:30	0.25	Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, pinch points, suspended loads rotating sheaves, muddy location, slippery conditions, use proper lifting techniques.
09:45	10.25	Rigged up slickline tool string. Ran in hole with overshot with 52.0mm grapple. Spang down onto fish 8 times. Started to pull out of hole had 3100 lbs. Got to 2812m pulling 8m/min weight was 2600 lbs and lost tools. Ran back down jarred down for 15min started to pull up and sheared JUC. POOH. Retied new cable head. RIH with 3" JDC worked up and down to get latched on. Latched on and pulled out of hole at 25m/min. Layed down tools. Rigged out extra lube retied cable head. Function tested tools won't stroke out. Function tested new tools work 100%. Secured well. Rigged out wireline truck will be swapping units tommorow morning. 20:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30		
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 19.0

7/28/2023 07:00 to 7/28/2023 20:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00 Weather Smoky Temperature (°C) 15

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

MIRU different wireline unit. Build new cable head (cable on this unit in a lot better condition). Function tested expansion tools 100%. RIH at 40m/min to 2323.0mKB correlate on depth to RBL.

Expansion #4 top 2300.0mKB, middle 2300.3mKB, bottom 2300.6mKB.

Log into postion.

Expansion #10 top 800.0mKB, middle 801.3mKB, bottom 801.6mKB.

Expansion #11 top 799.0mKB, middle 799.3mKB, bottom 799.6mKB.

POOH layed down tools. Function tested tools 100%. Rebuilt cable head secured well.

Time Log

Start Time	Dur (hr)	Com
07:00	1.75	Waited on Reliance to switch out wireline units due to poor line.
08:45	0.25	Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, pinch points, suspended loads, rotating sheaves, muddy location, slippery conditions, use proper lifting techniques. Discussed new procedures for running expansion tools in or out hole max 40m/min.
09:00	9.50	MIRU different wireline unit. Build new cable head (cable on this unit in a lot better condition). Function tested expansion tools 100%. RIH at 40m/min to 2323.0mKB correlate on depth to RBL. Expansion #4 top 2300.0mKB, middle 2300.3mKB, bottom 2300.6mKB. Temperature is affecting tools. Called Calgary decided to pull up hole into cooler fluid. Log into postion. Expansion #10 top 800.0mKB, middle 801.3mKB, bottom 801.6mKB. Expansion #11 top 799.0mKB, middle 799.3mKB, bottom 799.6mKB. POOH layed down tools. Function tested tools worked a lot better in cooler temerature. Line on cable head was in a lot better condition. Rebuilt cable head secured well. 18:30hrs SDFN. Rig and all equipment moved off location.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30		
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 20.0

7/29/2023 07:00 to 7/29/2023 15:30

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00 Weather Smoky Temperature (°C) 25

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

Rig up wireline. Function tested expansion tools 100%. RIH at 40m/min correlate on depth to RBL.

Expansion #8 top 1262.0mKB, middle 1262.3mKB, bottom 1262.6mKB.

Expansion #9 top 1260.0mKB, middle 1260.3mKB, bottom 1260.6mKB.

RIH to 1750.0mKB.

Expansion #7 top 1695.0mKB, top. Tool malfunctioned possible short inside.

POOH layed down tools. Function tested tools still not working. Rig out wireline equipment installed wellhead on top of orbit valve. Rigged out unit and picker.

Moved wellsite trailer and combo unit to barge landing. Secured well. Vent nanny still rigged in. See logs of dents in attachments

Time Log

Start Time	Dur (hr)	Com
07:00	0.25	Held safety meeting with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, pinch points, suspended loads, rotating sheaves, use proper lifting techniques. Discussed new procedures for running expansion tools in or out hole max 40m/min.
07:15	8.25	Rig up wireline. Function tested expansion tools 100%. RIH at 40m/min correlate on depth to RBL. Expansion #8 top 1262.0mKB, middle 1262.3mKB, bottom 1262.6mKB. Expansion #9 top 1260.0mKB, middle 1260.3mKB, bottom 1260.6mKB. RIH to 1750.0mKB. Expansion #7 top 1695.0mKB, top. Tool malfunctioned possible short inside. POOH layed down tools. Function tested tools still not working. Rig out wireline equipment installed wellhead on top of orbit valve. Rigged out unit and picker. Moved wellsite trailer and combo unit to barge landing. Secured well. Vent nanny still rigged in. 15:30hrs SDFN. See logs of dents in attachment.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30		
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 21.0

7/30/2023 06:00 to 7/30/2023 12:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Good	Set Depth (MD) (mKB) 2,992.00 Weather Clear Temperature (°C) 21

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

Travel to base

Time Log

Start Time	Dur (hr)	Com
06:00	6.00	Travel from Fort Liard camp to FSJ

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors		
				Contact	Title	
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor	
Methanol Water	0.00	0.00		Jason Tymo	Superintendent	
Methanol/water	0.00	0.00	0.30			
Other	0.00	0.00	-50.00			
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829	
				Rig Manager Anthony Klimm		



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 22.0

8/9/2023 08:00 to 8/9/2023 20:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Muddy	Set Depth (MD) (mKB) 2,992.00 Weather Raining Temperature (°C) 14

Daily Activities

Morning Ops @ 7am

WL: Ongoing

Daily Operations Summary

MIRU wireline unit and picker. Checked csg zero pressure. Removed wellhead installed flange and lubricator. Ran in hole with caliper tools to 2800mKB. Correlated on depth to RBL log from 2800mKB up to 750mKB. Pulled out of hole layed down tools. Rigged out wireline installed wellhead and secured well. Release all services.

Time Log

Start Time	Dur (hr)	Com
08:00	2.50	08:00hrs. Load equipment on barge and travel to location. Roads are muddy chains required. Spot picker and wireline unit.
10:30	0.25	Held safety meeting with all personal. Filled out new hazard assessment and reviewed with all personal. Filled out JSA for tasks today and discussed hazards. Line of fire, swing, path, pinch points, suspended loads, rotating sheaves, use proper lifting techniques.
10:45	7.25	MIRU wireline unit and picker. Checked csg zero pressure. Removed wellhead installed flange and lubricator. Picked up and ran in hole with caliper tools. Got to 800mKB had tool errors. Pulled out of hole changed tools. Ran in hole with tools again to 800mKB had errors. Pulled out of hole changed out complete tools. Ran in hole with caliper tools to 2800mKB. Correlated on depth to RBL log from 2800mKB up to 750mKB. Pulled out of hole layed down tools. Rigged out wireline installed wellhead and secured well. Release all services. Travel to barge an cross river. 18:00hrs

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors		
				Contact	Title	
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor	
Methanol Water	0.00	0.00		Jason Tymo	Superintendent	
Methanol/water	0.00	0.00	0.30			
Other	0.00	0.00	-50.00			
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829	
				Rig Manager Anthony Klimm		



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 23.0

8/24/2023 07:00 to 8/24/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 0	Tubing Pressure (kPa) Set Depth (MD) (mKB) 2,992.00
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Weather Clear

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

MIRU PWS 829. Spot all equipment and rig in equipment to CNRL & OROGO regulations. Checked precharge pressures on accumulator function tested bop's. Stump tested bop's 1400kPa low and 34000kPa high blind rams and pipe rams, annular 1400kPa low and 7000kPa high. Removed wellhead and orbit valve. Installed bop's pt ring gasket 1400kPa low and 10000kPa high 10min each. Rigged in floor stairs hand railing and tongs. Secured well. Barge having problems up river won't be back for 4 to 5 hrs. SDFN

Time Log

Start Time	Dur (hr)	Com
07:00	0.50	Filled out hazard assessment, JSA'S and TIWEP. Reviewed hazard assessment with all personal on location. Discussed hazards of each operation standing rig, rigging in pumptank, spotting equipment and reviewed sop's. Hazards Line of fire, swing path, over head loads, high pressure lines, Discussed muster points dog house and lease entrance or up wind. Use spotter for moving any equipment, tag lines.
07:30	4.00	Rig moved from Paramount location Aug 23rd and parked side of location. Moved rig matting, cat walk and 2 tanks from Paramount unload and spot equipment. Spotted pump tank, cat walk pipe racks and rig. Stood derrick and secured. Rigged in all equipment to CNRL and ORGO rules and regulations. Grounding, bonding, drip trays and tarps and drip tray under any running equipment. Checked SICP zero pressure. Checked precharge pressures on accumulator bottles. Bottle 1 6500, 2 7000, 3 6800, 4 6800, 5 6500, 6 6000kPa. Start pressure 12500kPa, close blind rams 12000kPa 5 sec, close pipe rams 11500kPa 5 sec, close annular 10000kPa 31 sec. Final pressure 10000kPa. Recharge time 49 sec. N2 bottles both 14000kPa. Stump tested blind rams 1400kPa low and 34000kPa high, pipe rams 1400kPa low and 34000kPa high, annular 1400kPa low and 7000kPa high all 10 min each. Hauled 90m3 fresh water unload in 64m3 tanks.
11:30	7.00	Removed top section of wellhead and 179mm orbit valve. Installed bop's rig in floor stairs handrails and tongs. Pressure tested ring gasket 1400kPa low and 10000kPa high 10 min each. Secure well. Barge have problems up river will not be back for 4 to 5 hrs. SDFN. Barge got back early travel back to location help truckers unload 73mm tbg 300jts.
18:30		CR 3 Hold pre- job safety meeting. MIRU Service Rig & associated equipment. Stump test BOPS to 1.4 MPa low & 35 MPa High for 10 mins, Install BOPS and repeat pressure tests. M/U 177.80 mm Double Grip Packer BHA with high temp Viton elements. RIH to 2738 mKB set packer & pressure test down the tubing to 14 MPa. Monitor annulus for communication. ***Notify Calgary Superintendent when pressure testing so the live Vent Nanny chart can be watched*** if decrease in intermediate casing flow is not observed on pressure test slowly bleed off pressure test to the rig tank. With packer set at 2738 mKB slowly increase pressure on the annulus to 10 MPa and notify Calgary. If indication of flow decrease from the intermediate casing is observed proceed to next step. - Bleed off pressure from the annulus and unset packer, POOH & set packer at 1655 mKB. Pressure test down the tubing to 14 MPa. Monitor annulus for communication. ***Notify Calgary Superintendent when pressure testing so the live Vent Nanny chart can be watched*** if decrease in intermediate casing flow is not observed on pressure test slowly bleed off pressure test to the rig tank. With packer set at 1655 mKB slowly increase pressure on the annulus to 10 MPa and notify Calgary. If indication of flow decrease from the intermediate casing is observed proceed to next step. - Bleed off pressure from the annulus and unset packer, POOH & set packer at 1232 mKB. Pressure test down the tubing to 14 MPa. Monitor annulus for communication. ***Notify Calgary Superintendent when pressure testing so the live Vent Nanny chart can be watched*** if decrease in intermediate casing flow is not observed on pressure test slowly bleed off pressure test to the rig tank. With packer set at 1232 mKB slowly increase pressure on the annulus to 10 MPa and notify Calgary. If indication of flow decrease from the intermediate casing is observed ***Notify Calgary & Wait on Orders*** ***Please document all pressure test exact times and pres

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m ³)	From well (m ³)	Left to recover (m ³)	Operational Supervisors	
				Contact	Title
Fresh Water			184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Anthony Klimm	Rig Manager
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 24.0

8/25/2023 06:30 to 8/25/2023 18:30

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 0	Tubing Pressure (kPa) Set Depth (MD) (mKB) 2,992.00
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Weather Clear

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

Changed out vent nanny with cell vent nanny not working change out with other sat unit. RIH with packer assembly and 292jts 73mm L-80 tbg. Set packer at 2738.0mKB. At 14:42hrs pressure up tbg to 14000kPa to 15:20hrs held solid monitor vent nanny in Calgary. Bled off tbg pressure. 15:28hr pressured up csg to 10000kPa to 15:47hrs held solid. Monitor vent nanny in Calgary. Bled off pressure pooh lay down 1 jt 116 jts stand in derrick. Total 175 jts in hole. Secured well. Held bop drill 57 sec to secure.

Time Log

Start Time	Dur (hr)	Com
06:30	1.00	06:30hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for all tasks today. Discussed hazards of each task Line of fire, swing path, over head loads, high pressure lines, pinch points, drift coming out of tbg. Discussed muster points TIWEP site number QW525 Quest helicopters.
07:30	1.00	Rig in new cell service vent nanny not working. Changed out with Sat vent nanny.
08:30	6.00	Made up 177mm x 2.27m double grip packer Viton elements, 73mm x 3.04m L-80 pup jt, 133.0mm x 0.46m mccl, 73.0mm x 0.27m 58.67mm X profile nipple. Total length 6.17m. Tally and drift in hole with 292 jts 73mm L-80 tbg. Located csg collar at 2737.80mKB. Layed down 2 jts added in 3.04m and .067m pup jts pickup 1 jt. Set packer c/e 2738.85mKB.
14:30	1.50	Rigged circulating equipment to tbg pressured up to 14000kPa monitored for 50 min starting at 14:42hrs to 15:20hrs. Holding solid. Bled off tbg pressure. Switched to annulus pressure up to 10000kPa starting at 13:28hrs to 15:47hrs. Holding solid. Bled off csg rig out circulating equipment.
16:00	2.50	Unset packer pooh lay down 1 jt rack 116 jts in derrick. Locate csg collar at 1655.10mKB. Have total 175 jts in well. Secured well. Held bop drill 57 sec secure well. 18:30hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Anthony Klimm	Rig Manager
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 25.0

8/26/2023 06:30 to 8/26/2023 18:30

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa) 0	Tubing Pressure (kPa) Set Depth (MD) (mKB) 2,992.00
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Weather Clear

Daily Activities

Morning Ops @ 7am

SR: Cement retainer squeeze

Daily Operations Summary

Set packer at 1650.0mkb. Pressure up tbg to 10000kPa at 07:30hrs to 08:10hrs. POOH set packer at 1232.0mKB. Pressure up tbg at 09:07hrs to 09:40hrs 10000kPa. Bleed off tbg pressure up csg 09:48hrs to 10:05hrs 10000kPa. Bleed off csg unset packer pooh set packer at 795.0mKB. Pressure up tbg at 10:57hrs to 11:30hrs. Bleed off tbg pressure up csg 11:36hrs to 11:54hrs. Bleed off csg. Unset packer pooh laying down 84 jts and packer. MIRU e-line. RIH with 127mm x 2m ERHSC guns with 25gr BH charges 60 degree phazing 20spm. Perforated at 1240.0-1242.0mKB. Rig off e-line. Tried to establish feedrate pressure up to 7000kPa holding solid. RIH with packer set at 1235.0mKB. Pressure tested csg to 7000kPa 10min. Establish feedrate of 0.072m3/min at 18000-17500kPa. Pumped total of 0.600m3. Bleed off pressure secured well

Time Log

Start Time	Dur (hr)	Com
06:30	0.50	06:30hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for task today. Discussed hazards of each task Line of fire, swing path, over head loads, high pressure lines, pinch points, Discussed muster points TIWEP site number QW525 Quest helicopters.
07:00	0.50	Add in 3.05m pup jt buired set packer at 1650.0mkb.
07:30	1.00	Rig in line to tbg. Pressure up tbg to 10000kPa at 07:30hrs to 08:10hrs. Monitor vent nanny in Calgary. Bleed off pressure rig off circulating equipment.
08:30	5.00	Unset packer pooh with 43 jts and pup jt. Set packer at 1232.0mKB. Pressure up tbg at 09:07hrs to 09:40hrs 10000kPa. Solid test. Bleed off tbg pressure up csg 09:48hrs to 10:05hrs 10000kPa. Solid test. Bleed off csg unset packer pooh with 47 jts. Space out set packer at 795.0mKB. Pressure up tbg at 10:57hrs to 11:30hrs. Solid test. Bleed off tbg pressure up csg 11:36hrs to 11:54hrs. Solid test. Bleed off csg. Unset packer pooh laying down 84 jts and packer.
13:30	2.50	MIRU Reliance wireline unit. Install flange, bop's and lubricator. RIH with 127mm x 2m ERHSC gun with 25gr BH charges 20spm 60 degree phazing. Tagged fluid at 55m. Correlated on depth to RBL dated July 24-23. Perforated at 1240.0 - 1242.0mKB. Slight vacuum and slight blow on csg. POOH check guns all shots fired no change in fluid level. Rig off wireline. Fill csg with 1.0m3 fresh water try to establish feedrate pressured up to 7000kPa. Monitor for 10 min. Bleed off csg. Note wireline unit and equipment left on location.
16:00	3.50	RIH with packer assesmbly10.22m, 131jts 1221.59m, KB diff 3.90m set packer at 1235.71mKB. Pressure tested csg to 7000kPa 10min. Rig line into tbg tried to establish feedrate pressured up to 7000kPa. Increased to 14000kPa. Had slow bleed off 14000-13000kPa 10min. Increased to 16000kPa had slow bleed off 16000-15000kPa 10min. Increased pressure to 18000kPa. Started to see feedrate of 0.072m3/min at 18000-17500kPa. Pumped total od 0.600m3. Bleed off pressure secured well. 19:30hrs SDFN.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Anthony Klimm	Rig Manager
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 26.0

8/27/2023 06:30 to 8/27/2023 19:30

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Set Depth (MD) (mKB) 2,992.00 Weather Clear Temperature (°C) 29

Daily Activities

Morning Ops @ 7am

SR: POOH tubing only

Daily Operations Summary

Unset packer pooh lay down 1 jt stand 130 jts in derrick.RIH with mechanical cement retainer set at 1235.0mKB. PT csg 7000kPa, set tbg in neutral pt to 7000kPa. MIRU cementers. PT iron 21Mpa. Established feedrate of 72L/min at 18700kPa. Waited on vacuum truck barge was up river. Mixed up and started pumping Microfine cement with CHRT-H 0.1%. Displace to bottom at 250L/min at 2Mpa 1.0m3 holding 2Mpa back pressure on csg. Close in csg. Started mixing Thermal 40 + 1% CHGC2 + .5 CaCl2, CHRT-H 0.2%. Displace 1.6m3 300L/min at 1.5MPa. Sting into retainer start squeeze 100L/min at 1.5MPa 0.9m3. Stop hook up slow rate start 30L/min at 20MPa. Final slow rate 3L/min at 21Mpa. Total of 881L squeezed into perfs. Flatline at 21Mpa for 15 min. Pull into neutral bled off tbg pressure. Sting out of retainer balanced 1.0m3 cement on top retainer. Cement top 1184.0mKB.. Pull and lay down 10 jts. Rig into backwash 2 tbg volumes. 7.0m3.

Time Log

Start Time	Dur (hr)	Com
06:30	0.50	06:30hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for task today. Discussed hazards of each task Line of fire, swing path, over head loads, high pressure lines, pinch points, Discussed muster points TIWEP site number QW525 Quest helicopters.
07:00	4.00	Checked tbg and csg zero pressure. Unset packer pooh lay down 1 jt stand 130 jts in derrick. Lay down packer. Make up and run in hole with mechanical cement retainer 0.43m, setting tool 0.82m, mccl 0.46m, X nipple 0.27m, 73mm pup jt 3.07m = 5.22m. 130 jts 73mm tbg 1212.44m, 2 73mm pup jts 4.88m, 1 jt 73mm tbg 9.15m, KBD 3.90m, minus 0.59m stickup. Set retainer at 1235.0mKB. Pressure tested annulus to 7000kPa 10min. Position tbg in neutral and pressure test to 7000kPa.
11:00	0.25	Held safety meeting with all personal. Filled out JSA for task today. Discussed hazards cementing operations. Line of fire, swing path, over head loads, high pressure lines, pinch points, spotters at all times.
11:15	0.75	MIRU Charger c/a unit with bulker. Rig in iron to tbg. Fill lines and pressure tested to 24MPa. Establish feerate 72L/min at 18.7MPa pumped 0.45m3.
12:00	5.00	Waited from 12:00hrs to 17:00hrs of brage to bring vacuum truck across.
17:00	2.50	Mixed up and started pumping Microfine cement with CHRT-H 0.1%. Displace to bottom at 250L/min at 2Mpa 1.0m3 holding 2Mpa back pressure on csg. Close in csg. Started mixing Thermal 40 + 1% CHGC2 + .5 CaCl2, CHRT-H 0.2%. Displace 1.6m3 300L/min at 1.5MPa. Sting into retainer start squeeze 100L/min at 1.5MPa 0.9m3. Stop hook up slow rate start 30L/min at 20MPa. Final slow rate 3L/min at 21Mpa. Total of 881L squeezed into perfs. Flatline at 21Mpa for 15 min. Pull into neutral bled off tbg pressure. Sting out of retainer balanced 1.0m3 of cement on top of retainer. Cement top at 1184.0mKB. Pull and lay down 10 jts. Rig into backwash 2 tbg volumes. 7.0m3. Secure well. 19:30hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Anthony Klimm	Rig Manager
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 27.0

8/28/2023 06:30 to 8/28/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Set Depth (MD) (mKB) 2,992.00 Weather Clear Temperature (°C) 33

Daily Activities

Morning Ops @ 7am

WL: Perforate for BGWP/SCVF remediation

Daily Operations Summary

Wait on Calgary. POOH laying down laying down 121 jts tbg and tools. RIH with packer set at 700, 600, 500, 400, 300 and 200mKB. Pressure up csg to 7000kPa and monitor vent nanny. POOH with packer. Secure well.

Time Log

Start Time	Dur (hr)	Com
06:30	0.50	06:30hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for task today. Discussed hazards of each task Line of fire, swing path, over head loads, high pressure lines, pinch points, Discussed muster points TIWEP site number QW525 Quest helicopters.
07:00	3.00	Wait on Calgary.
10:00	2.00	POOH laying down laying down 121 jts tbg and tools.
12:00	7.00	Made up packer assembly rih with 124 jts and pup jts. Set packer at 598.79mKB. Fill csg and pressure up to 7000kPa 13:18hrs to 13:39hrs. Bled off unset packer pull up and set at 600.75mKB. Pressured up to 7000kPa 14:08hrs to 14:30hrs. Bled off csg unset packer pull up set packer at 504.80mKB. Pressure up csg 7000kPa 14:54hrs to 15:16hrs. Bled off unset packer pull set packer 400.0mKB. Pressure up to 7000kPa 15:34hrs to 15:47hrs. Bled off un set packer pull up set packer at 300.0mKB. Pressure up to 7000kPa 16:05hrs to 16:40hrs. Bled off unset packer pull up set packer at 200.0mKB. Pressure up to 7000kPa 16:54hrs to 17:45hrs. Bled off unset packer pooh. Secure well. 19:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	184.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Anthony Klimm	Rig Manager
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 28.0

8/29/2023 06:30 to 8/29/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Set Depth (MD) (mKB) 2,992.00 Weather Smoky Temperature (°C) 30

Daily Activities

Morning Ops @ 7am

SR: Cement retainer squeeze

Daily Operations Summary

Rig in wireline run in hole with 2m 127mm ERHSC gun 25gr BH charges 20spm 60 degree phazing. Had miss run. POOH. RIH perforate at 725 - 727mKB. Filled csg try to get feerate pressured up to 7000kPa. RIH with packer set at 720.0mKB. PT csg 7000kPa. Shut down for 30 min. Start slow rate 4.9MPa 10L/min slow rate down to 5L/min at 14MPa 515L total. 20.9MPa. Wait 10 min pumped 5L 23.2MPa. Total pumped into perfs 2.12m3 cement. Pull into neutral bled off pressure pull out of retainer. Balance 1.0m3 of cement on top of retainer top at 668.0mKB. Pulled 10 jts backwashed 2 tbg volumes. 4.0m3. Secure well. 20.30hrs SDFN.

Time Log

Start Time	Dur (hr)	Com
06:30	0.50	06:30hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for task today. Discussed hazards of each task Line of fire, swing path, over head loads, high pressure lines, pinch points, Reviewed hazards of wireline operation. Rotating equipment isolated energy. Discussed muster points TIWEP site number QW525 Quest helicopters.
07:00	2.00	<p>1) Perforate 725 – 727 mKB</p> <p>2) Remove vent meter if required. Attempt to break circulation to the intermediate vent to a maximum 7 Mpa down casing from surface.</p> <p>3) IF NO VENT RESPONSE. Contact Superintendent to run packer set @720 mKB. Pressure test annulus to 7 MPa.</p> <p>4) Attempt to break circulation to intermediate vent pumping fresh water down the tubing and staging pressure up to maximum 14 MPa. CONTACT SUPERINTENDENT WITH RESULTS before proceeding.</p> <p>5) DISCUSS WITH SUPERINTENDENT; and based on well response, attempt to aid in circulation by pressuring up on the intermediate vent from surface to a maximum 7 MPa using fresh water. CONTACT SUPERINTENDENT WITH RESULTS before proceeding.</p> <p>6) Pull packer. RIH set CR @ 718 mKB. PT retainer to 7 MPa. PT tubing to >21 MPa.</p> <p>7) Review cementing program with Calgary before proceeding. Perform cement circulation to surface or cement squeeze to lock-up based on results (Final squeeze pressure TBD based on well / vent response).</p> <p>MIRU wireline flange, bop, lubricator. Made up 127mm x 2.0m ERHSC gun with 25gr BH charges 20spm at 60 degree phazing. RIH correlated on depth to RBL. Positioned guns at 725 - 727mKB. Guns didn't fire pulled to 100m held safety meeting. RIH with guns again log on depth perforate at 725.0 - 727.0mKB. Slight vacuum csg. POOH guns fired. Rig out wireline.</p>
09:00	5.50	Made up packer assembly 6.17m rih with 152jt 708.53m, KBD 3.90m, 1.68m pup jt. Set packer at 720.0mKB. Pressure test annulus to 7000kPa 10 min. Rig line into tbg. Started pumping down tbg pressured up to 7000kPa no rate took up to 14000kPa slowly. Lost 1000kPa in 2min. Bled tbg pressure hard and took back up to 14000kPa hard. Did that 10 times no change. Bled tbg off. Switch lines over to intermediate csg. Pressured up to 7000kPa slowly. Lost 3500kPa in 5min. Bled off hard and took up hard to 7000kPa 8 times had no change. Tbg open no returns. Bled off intermediate csg switch to tbg. Pressured up tbg to 21000kPa lost 4000kPa in 5min. Bled off hard and took back up to 21000kPa hard. Pressure started dropping off started pumping at 18000kPa 280L/min. No returns up intermediate csg slight dribble. Increased rate to 750L/min at 18000 -17000kPa. Pumped total 6.0m3. Stopped pumping monitored pressure dropping down to 8000kPa in 2min. Switch to intermediate csg pressured up to 7000kPa had slight bleed off. Bled off pressure. Check annulus had 15000kPa on it bled off to zero. Left csg open pumped down tbg 18000 kpa at 700L/min 0.50m3. Pressure test annulus to 7000kPa had solid test. Bled off pressure shut in annulus monitor for buildup. Pumped 0.50m3 down tbg at 700L/min at 18000kPa. Had no change on annulus. Bled off tbg unset packer pooh.
14:30	1.50	Made up mechanical cement retainer 4.85m. Rih with 152js add 1.23m pup buried set retainer at 718.0mKB. Pressure test annulus 7000kPa. Pull into neutral pressure test tbg 7000kPa.
16:00	4.50	Rig in charger c/a unit and bulker. Fill lines and pressure tested iron to 28000kPa. Establish feedrate 150L/min at 11MPa pumped 3.0m3. Pull into neutral pressure test tbg 7000kPa. Mixed up 1.0m3 Microfine with NaCl 1.5% 1500kg/m. Pumped down at 200L/min at 10MPa, Mixed up 2.0m3 Thermal 40 with CaCl2 1%, CHGC-2 1%. Pumped down tbg at 250L/min at 10MPa. Displace with 600L at 150L/min at 11MPa. Shut down for 30 min. Start slowrate 4.9MPa 10L/min slow rate down to 5L/min at 14MPa 515L total. 20.9MPa. Wait 10 min pumped 5L 23.2MPa. Total pumped into perfs 2.12m3 cement. Pull into neutral bled off pressure pull out of retainer. Balance 1.0m3 of cement on top of retainer top at 668.0mKB. Pulled 10 jts backwashed 2 tbg volumes. 4.0m3. Secure well. 20.30hrs SDFN.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/29/2023 09:45	Besa River, Original Hole	725.00	727.00	Perforation	
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	17.00	0.00	201.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Anthony Klimm	Rig Manager
Other	0.00	0.00	-50.00		
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829
				Rig Manager Anthony Klimm	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 29.0

8/30/2023 06:30 to 8/30/2023 19:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Set Depth (MD) (mKB) 2,992.00 Weather Smoky Temperature (°C) 26

Daily Activities

Morning Ops @ 7am

SR: Ongoing

Daily Operations Summary

POOH laying down 66 jts and bha. Rig out tongs, floor remove bop's install wellhead. Rig out rig and all equipment. Walk around pick up all garbage. Secured well. Move rig to barge landing. SDFN

Time Log

Start Time	Dur (hr)	Com
06:30	0.50	06:30hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for task today. Discussed hazards of each task Line of fire, swing path, over head loads, high pressure lines, pinch points, Laying down tbg, rigging out equipment. Rotating equipment isolated energy. Discussed muster points TIWEP site number QW525 Quest helicopters.
07:00	1.50	POOH laying down 66 jts and bha.
08:30	8.00	Rig out tongs, floor remove bop's install wellhead. Rig out rig and all equipment. Walk around pick up all garbage. Secured well. Move rig to barge landing. 18:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/29/2023 09:45	Besa River, Original Hole	725.00	727.00	Perforation	
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors		
				Contact	Title	
Fresh Water			201.50	Roy Craft	Wellsite Supervisor	
Methanol Water	0.00	0.00		Jason Tymo	Superintendent	
Methanol/water	0.00	0.00	0.30	Anthony Klimm	Rig Manager	
Other	0.00	0.00	-50.00			
Produced Water	0.00	0.00		Contractor Precision Well Servicing	Rig Number 829	
				Rig Manager Anthony Klimm		

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 30.0

8/31/2023 06:30 to 8/31/2023 22:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Set Depth (MD) (mKB) 2,992.00 Weather Clear Temperature (°C) 26

Daily Activities

Morning Ops @ 7am

SCVF/GM: Monitor

Daily Operations Summary

Empty tanks have vacuum truck clean rig tank. Move tanker to barge landing and pump, tank, dog house. Waited on barge for 8hrs. Have trucks load tbg, rig matting, pipe racks, cat and 2 tank. Travel to barge landing.

Time Log

Start Time	Dur (hr)	Com
06:30	0.50	06:30hrs. Serviced and started equipment. Held safety meeting with all personal. Filled out JSA for task today. Discussed hazards of each task Line of fire, swing path, over head loads, high pressure lines, pinch points, TIWEP site number QW525 Quest helicopters.
07:00	15.00	Have tank trucks empty 2 64m3 tanks and vacuum truck clean out rig tank. Move pump tank and dog house to barge landing and wait on barge. Waited on barge for 8 hrs to move rig equipment across to liard side and trucks on paramount side. Had trucks load tbg, 2 tanks, rig matting, piperacks and catwalk. Travel back to barge landing. 22:00hrs SDFN

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/29/2023 09:45	Besa River, Original Hole	725.00	727.00	Perforation	
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors		
				Contact	Title	
Fresh Water			201.50	Roy Craft	Wellsite Supervisor	
Methanol Water	0.00	0.00		Jason Tymo	Superintendent	
Methanol/water	0.00	0.00	0.30	Anthony Klimm	Rig Manager	
Other	0.00	0.00	-50.00	Contractor		
Produced Water	0.00	0.00		Precision Well Servicing	Rig Number	829
				Rig Manager		
				Anthony Klimm		

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 31.0

10/6/2023 11:00 to 10/6/2023 12:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Set Depth (MD) (mKB) 2,992.00 Weather Sunny Temperature (°C) 14

Daily Activities

Morning Ops @ 7am
SCVF/GM: Monitor

Daily Operations Summary

Removed vent nanny equipment. Did 10 min bubble test on intermediate csg had 16 bubbles per min. Left csg open.

Time Log

Start Time	Dur (hr)	Com
11:00	2.00	Flew in with helicopter. Removed vent nanny equipment. Did 10 min bubble test on intermediate csg had 16 bubbles per min. Left csg open.

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/29/2023 09:45	Besa River, Original Hole	725.00	727.00	Perforation	
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	201.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Dale Duffy	Superintendent
Other	0.00	0.00	-50.00	Contractor	Rig Number
Produced Water	0.00	0.00			
				Rig Manager	

**Canadian Natural****Daily Service Report (Gov't Submissions)****ANADARKO LIARD P-16**Job: Abandonment
Report #: 32.0

6/12/2024 00:00 to 6/12/2024 00:00

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective			Plug Back Depth (mKB)	3,033.00
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Set Depth (MD) (mKB) 2,992.00

Daily Activities

Morning Ops @ 7am

C&C: Ready for cut and cap

Daily Operations Summary

Checked site for pressures and SCV or Intermediate Casing Flow. Production casing 0 kPa; INtermediate casing 0 kPa and no flow; SCV monitored for 1 hour with no evidence of flow.

Time Log

Start Time	Dur (hr)	Com

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/29/2023 09:45	Besa River, Original Hole	725.00	727.00	Perforation	
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	201.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Dale Duffy	Superintendent
Other	0.00	0.00	-50.00	Contractor	Rig Number
Produced Water	0.00	0.00		Rig Manager	



Canadian Natural

Daily Service Report (Gov't Submissions)

ANADARKO LIARD P-16

Job: Abandonment
Report #: 33.0

7/4/2024 08:00 to 7/4/2024 18:30

Current Event (UWI) 300/P-16-60.30-123.30/00		Surface Legal Location 300/P-16-06.03-001.23	License # NT001976	Field Name NWT MISC	Province N.W.T
WI (%) 100.00	Objective		Plug Back Depth (mKB) 3,033.00		
Job Start Date 7/10/2023	Ground Elevation (m) 327.40	Tubing Head Elevation (m) 327.85	KB-TH (m) 6.25	Casing Pressure (kPa)	Tubing Pressure (kPa)
Job End Date 7/4/2024	Original KB Elevation (m) 334.10	Casing Flange Elevation (m) 327.40	KB-Casing Flange Distance (m) 6.70	Road Condition Dusty	Set Depth (MD) (mKB) 2,992.00 Weather Sunny Temperature (°C) 39

Daily Activities

Morning Ops @ 7am

RR: Turn well over to reclamation

Daily Operations Summary

Did 10 min bubbles test scv no bubbles. Did 10 min bubble test on intermediate csg no bubbles. Sweep with Gas Rover no methane readings. Have hoe operator dig down 2.5 meters, slope back and build stairs. Had welder cut conductor barrel, surface scg, intermediate csg and production csg. Install vented cap on all 3 csgs. Weld loc P-16 and lic # 001976 on cap. Back fill hole install grave marker.

Time Log

Start Time	Dur (hr)	Com
08:00	2.00	Traveled across river on barge and drove to location. Checked for any new hazards on locations. Did 10 min bubbles test scv no bubbles. Did 10 min bubble test on intermediate csg no bubbles. Did 24 point sweep with Gas Rover no methane readings.
10:00	8.50	Removed top section of wellhead. Have hoe operator dig down 2.5 meters, slope back and build stairs. Had welder cut conductor barrel, surface scg, intermediate csg and production csg. Install vented cap on all 3 csgs. Weld loc P-16 and lic # 001976 on cap. Back fill hole install grave marker. Load wellhead and all scrap metal in trailer haul to fsj. Well is abandoned turn over to reclamation. Travel to base. 18:30hrs

Perforations Summary

Date	Zone	Top (mKB)	Btm (mKB)	Type	Com
8/29/2023 09:45	Besa River, Original Hole	725.00	727.00	Perforation	
8/26/2023 00:00	Besa River, Original Hole	1,240.00	1,242.00	Perforation	No change on csg after perforating.
3/31/2003 00:00	Nahanni, Original Hole	2,992.00	3,125.00	Open Hole	

Daily Fluids Summary

Fluid	To well (m³)	From well (m³)	Left to recover (m³)	Operational Supervisors	
				Contact	Title
Fresh Water	0.00	0.00	201.50	Roy Craft	Wellsite Supervisor
Methanol Water	0.00	0.00		Jason Tymo	Superintendent
Methanol/water	0.00	0.00	0.30	Dale Duffy	Superintendent
Other	0.00	0.00	-50.00	Contractor	Rig Number
Produced Water	0.00	0.00			
				Rig Manager	





1/28/2003
CNR
JUL 14 2024
60° 25' 0.1" N
123° 31' 58.3" W
NAD 27