

August 29, 2023

Office of the Regulator of Oil & Gas Operations
Government of the Northwest Territories
PO Box 132
Yellowknife NT X1A 2L9

Attention: Ms. Pauline de Jong
Executive Director

**Cover Letter for Cut/Cap Operation as part of the Well Abandonment
PARAMOUNT ET AL LIARD 2M-25 ACW-2022-PAR-2M-25-WID2008**

Please find attached for submission the required documents for Well Termination (Abandonment) of the 302/M-25/6030-12330/00 well, Licence # 2008

Attachments include:

1. Change of Well Status
2. Well Termination Record
3. Summary of Cut/Cap Well Operations
4. Cut/Cap Daily Reports
5. Picture of capped wellbore
6. Downhole Schematic

Non-Saline Water was placed in the wellbore as part of the suspension and no problems were encountered with this operation.

Respectfully,



John Hawkins, P. Eng.
Director Asset Management
Paramount Resources Ltd.
403-817-5074

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	PARAMOUNT ET AL LAIRD 2M-25	Operator	Paramount Resources Ltd.
Well Identifier (WID)	2008	Unique Well Identifier (30xx...)	302/M-25/6030-12330/00

STATUS INFORMATION

Effective Date: August 21, 2023

Well Type:	Other
If other, specify:	Well never 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	John Hawkins	Phone	(403) 817- 5074
Title	Director Asset Management	E-Mail	john.hawkins@paramountres.com
Operator	Paramount Resources Ltd.		
Signature		Date	August 29, 2023
	<i>Responsible Officer of Company</i>		

WELL TERMINATION RECORD

INSTRUCTIONS:

1. Complete both pages.
2. Send one electronic copy of this form and supporting technical documentation 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	PARAMOUNT ET AL LIARD 2M-25	Operator	Paramount Resources Ltd.
Well Type	Exploratory Well (if Other, specify _____)	Contractor	Precision Well Servicing
Well Identifier	2008	Current Well Status	Abandoned

RELATED LICENCES AND AUTHORIZATIONS

Operating Licence No.	NWT-OL-2014-014	Operations Authorization	OA - 2020-001- PAR
PRA Licence No.	Exploration Licence NWT-OL-2014-014	Approval to Alter Condition of Well	ACW - 2022- PAR-2M-25- WID2008

LOCATION INFORMATION

Coordinates Datum: NAD83 (if Other, please specify _____)

Surface	Lat 60 ° 41 ' 413 "	Long 123 ° 58 ' 811 "
Bottom Hole	Lat 60 ° 43 ' 609 "	Long 123 ° 59 ' 526 "

Region: Dehcho Unit 0 Section Grid 60-30 123-30

ACTIVITY INFORMATION

Target Formation(s)	Nahanni	Field/Pool(s)	Liard / West
Elevation KB/RT	919.0 m	Ground Level / Seafloor	911.0 m
Service Rig Start Date	July 19, 2023	Total Depth	4324.0 m KB
Service Rig Release Date	Aug 7, 2023	Total Vertical Depth	3138.6 m KB

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing (m ³)
244.5	59.5	L-80	1509.7	75.0 tonnes
177.8	43.2 & 38.7	L-80	3875.0	41.8 tonnes
			0	

PLUGGING PROGRAM				
Type of Plug	Interval (m KB)	Felt	Setting Depth (m KB)	Cementing (m ³)
Cement	1259.0-1287.0	Yes		3.8
Cement Retainer	-	Yes	603.0	
Cement	608.0-609.0	Yes		2.7
Cement	244.0-603.0	Yes		1.3

PERFORATION	
Interval (m KB)	Comments
608.0-609.0	Remedial Perfs during abandonment ops. Acidized. Cement retainer at 603.0 then perfs cement squeezed. Tagged retainer.
407.0-408.0	Remedial Perfs. Acidized, cement retainer at 403.0, perfs cement squeezed with 3.3m3 cement, cement plug from 367.0 - 403.0 with 1.3m3 cement. Tagged plug.
-	
-	

OTHER	
Lost Circulation/Overpressure Zones	No
Equipment Left on Site (Describe)	Wellhead/Tombstone Sign
Provision for Re-entry (Describe and attach sketch)	No
Other Downhole Completion/Suspension	
Additional Comments	Added perfs, cement retainer and cement details in Perfs column due to limitations within Plugging Program area on form.

<i>"I certify that the information provided on this form is true and correct"</i>			
Name	John Hawkins, P.Eng.	Phone	(403) 817 - 5074
Title	Director Asset Management	E-Mail	john.hawkins@paramountres.com
Operator	Paramount Resources Ltd.		
Signature		Date	August 29, 2023
	<i>John Hawkins</i> Responsible Officer of Company		



ARO Daily Op Summary

Paramount

resources ltd.

Well Name: PARAMOUNT ET AL LIARD 2M-25

Well Header

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	License # N2008	State/Province NorthWest Territories	Well Configuration Type Vertical
Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	KB-Ground Distance (m) 7.40	KB-Casing Flange Distance (m) 7.40	Spud Date 3/25/2004	Rig Release Date 7/22/2004

Daily Operations

Start Date	Summary
7/19/2023	<p>HSE Summary: No incidents, accidents or spills. Air vac # QW-421</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Loader move and spot equipment from operations PRL 300/M-25-6030-12330 as needed. - Rig up PWS # 830, Fire Suppression unit, hydraulic catwalk, pipe racks, and support equipment on site as per industry, government, contractor and PRL spacing rules and regulations. Perform ongoing CAOCD inspection as use equipment. - Run remote accumulator lines to 279.4 mm Class III BOP. Function BOP's. Start 21 MPa. Close blind 8 sec. Close pipe rams 8 sec. Close annular 42 secs. Final pressure 11 MPa. Recharge 217 secs. - Stump test blind rams and pipe rams 1.4 MPa and 30 MPa. Held 10 min. Test annular bag 1.4 MPa and 10 MPa. Held 10 min. - Remove 279.4 mm Adapter Flange with mm x 279.4 mm - 34.5 MPa Master Valve. - Install 279.4 mm - 34.5 MPa - Class III BOP and tubing handling equipment. Pressure test wellhead connection and 244.5 mm casing to 1.4 MPa (low) and 14.0 Mpa (high). held each test 10 minutes. - Clean and secure site. Travel to base. - End report for day.
7/20/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Spot E-line, rig up and Install wire line wellhead equipment. Run 210 mm / gauge ring / junk basket and tag cemented bridge plug @ 1271.5 mKB. Run in CCL / RBL Tool String. Perform high speed pass to top of cemented bridge plug at 1271 mKB. Correlate on depth to surface casing depth 383 mKB. Log from 1270 mKB to surface. Log to be sent to Calgary ASAP. Rig down wire line equipment. - Run in 136 joints of 73 mm J-55 9.67 kg/m tubing. Tag cement on top of bridge plug @ 1287 mKB. Position tubing bottom 1285 mKB. Estimated well bore temp 55°C at depth. - Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1.2 m³ Charger Thermal 40 + 0.3% CHRT-H x 1800 kg/m³ cement slurry. Slurry Yield 0.870 m³/t. Fluid loss 0.15 %. Thick time 1.5 hrs. Pump rate 400 L/min x 3 MPa. Displace behind cement slurry 3.8 m³ fresh (non-saline) water 13°C. Circulated and balance cement plug from 1257 mKB to 1287 mKB. No signs activity from SCVF. Rig down pump line. - Lay down 6 joints 73 mm tubing. Position tubing bottom 1228 mKB. Rig in circulation lines. Reverse circulate 7 m³ fresh water at 400 L/min x 3.0 MPa. Returns returns are clean fres water. Send last 3 m³ to vac truck with retarder mixed for possible cement slurry. Lay out 2 more joints. Rig down circulation lines. Rig out and release cement units and vac unit. - Clean and secure wellhead and site. SDFN. Travel to base. - End report for day.
7/21/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Run in 5 joints of 73 mm J-55 6.99 kg/m tubing. Tag cement top @ 1259 mKB with 1800 daN weight. - Pull and lay down 63 joints of 73 mm tubing. Stand 64 jnts (601 mtrs) in the derrick. - Operations wait for approval of intended remedial perf intervals from OROGO. - Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 279.4 mm - 179.4 mm DSA. Install wire line wellhead equipment. - Purge with N2 initially and each run. Make up and RIH with CCL / 1 mtr x127 mm ERHCS perf gun c/w 20 gram SDP charges @ 20 SPM x 60*. Correlate to depth and perforate interval 608 - 609 mKB. Retrieve spent gun to surface. RIH with second 1mtr gun and perforate 609 - 610 mKB (BGWP). Retrieve spent gun to surface. Rig down and lay out wireline equipment. - Close blind rams and perform injectivity test. Takes 900 ltrs fresh water to fill hole. Pressure up to 5 mPa SFC pressure which is max frac pressure with hydrostatic of 5.9 mPa included. (calculated frac pressure at depth of 610 mKB x18.2 kpa/mtr = 11 mPa max pressure). Held solid for 10 mins. Bled off pressure and rigged down pump line. - Secure well, equipment and site. Clean work areas and SDFN. Travel to base. - End of report for day.



ARO Daily Op Summary

Paramount resources Ltd.

Well Name: PARAMOUNT ET AL LIARD 2M-25

Well Header

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	License # N2008	State/Province NorthWest Territories	Well Configuration Type Vertical
Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	KB-Ground Distance (m) 7.40	KB-Casing Flange Distance (m) 7.40	Spud Date 3/25/2004	Rig Release Date 7/22/2004

Daily Operations

Start Date	Summary
7/22/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> -Run 64 joints of 73 mm J-55 9.67 kg/m tubing out of derrick. Spot tubing bottom at 612 mKB. Positioned below perforations @ 608 mKB - 610 mKB. -Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1 m3 Enviro Syn HCR-7000 15% HCL acid. Break forward circulate and pump acid to tubing bottom. Wash / squeeze at 4 mPa across perfs at 608 mKB - 610 mKB. See feed rate of 50 ltr/min x 3.2 mPa for 100 ltrs. Stop pump 15 mins. Squeeze with fresh acid every 15 mins for 100 ltrs. Pick up tbg and pump last 100 ltrs acid into perfs. Final feed rate is 125 ltrs/min x 3.2 mPa with 1 m3 fresh water. No signs of activity from SCVF. Rig down pump line. -TOOH with and stand back in derrick 64 joints of 73 mm J-55 9.67 kg/m tubing. -Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 279.4 mm - 179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. RIH with CCL / Setting tool and 244 mm cement retainer. Correlate to depth and set retainer 5 mtrs above perforation in the next casing joint above @ 603 mKB. Retrieve setting tools to surface. Rig down wire line equipment and 279.4 mm - 179.4 mm DSA. -Tie in pump line, fill hole with 900 ltrs fresh water and pressure test retainer to 7 mPa for 10 mins. Test good. Bleed off pressure and rig down pump line. -Secure well, equipment and site. Clean work areas and SDFN. -Precision rig #830 crew travels to Fort St John for crew change. -End report for day.
7/23/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Make up and measure stinger BHA. Run 62 joints of 73 mm J-55 9.67 kg/m tubing out of derrick. Tag top of 244 mm retainer at 603 mKB. -Space out 73 mm tubing string to floor working height and install circulating head. Tie in cementer's pump line to tubing. Break forward circulation with cement pump at 50 ltrs/min. Wash and lower stinger into retainer. Stop pump. Set stinger into compression, turn tubing quarter turn to left to lock and pick up 2000 daN over string weight to close tubing at tool. Start up cement pump and pressure test tubing to 7 mPa. Hold for 10 mins. Test good, Bleed off tubing pressure and set string weight back in 2000 daN compression. Tie in service rig pump to pressure annulus to 7 mPa. Hold for 10 mins. Bleed of annulus. -Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 4 m3 Thermal 40 + 1% calcium x 1800 kg/m3 cement slurry. Slurry Yield 0.870 m3/t. Fluid loss 0.15 %. Thick time 1.5 hrs. Brought on cement pump at 130 ltrs/min x 2.5 MPa. Displacement behind cement slurry is 500 ltrs of fresh (non-saline) water 13°C. Started squeezing 30 ltrs/min at 200 kpa. Built positive pressure till squeeze completion. Final pressure at 3 mPa. Stop pumps and held for 10 min flat line. Squeeze 2.7 m3 cement into perf interval and hold remaining cement in tubing. No signs activity from SCVF. Rig down cement pump line. Latch onto tubing with rig, Pick up and find neutral at stinger tool. Turn tubing to right and realease stinger from retainer. Pull slowly and lay out 2 joint of 73 mm tubing. Cap retainer with 32 mtrs linear cement (1.3 m3) as it falls -Lay out 6 joints of 73 mm tubing. Tie in rig pump and reverse circulate to back wash 3 m3 fresh water. Ensure returns are clean fresh water and shut down pump. Rig down pump lines. Lay out 2 more joints of tbg. -Secure well, equipment and site. Clean work areas and SDFN. -End report for day.



ARO Daily Op Summary

Paramount
resources ltd.

Well Name: PARAMOUNT ET AL LIARD 2M-25

Well Header

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	License # N2008	State/Province NorthWest Territories	Well Configuration Type Vertical
Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	KB-Ground Distance (m) 7.40	KB-Casing Flange Distance (m) 7.40	Spud Date 3/25/2004	Rig Release Date 7/22/2004

Daily Operations

Start Date	Summary
7/24/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Wait on fog to transport river safely. - Pick up 3 joints. Tag cement top of 244 mm retainer at 569.32 mKB (equals to 33.6 linear meters of cement on retainer set @ 603 mKB). Set down 1800 daN string weight. TOOH with tubing. - Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Install wire line wellhead equipment Make up and RIH with CCL / 1 mtr x 127 mm ERHCS perf gun c/w 20 gram SDP charges @ 20 SPM x 60°. Correlate to depth and perforate interval 408 - 409 mKB. RIH with second 1mtr gun and perforate 407 - 408 mKB (Flett). Retrieve spent guns to surface. - Close blind rams and perform injectivity. Fill hole 750 ltrs and pressure up to 3.4 mPa SFC which is max frac pressure with hydrostatic of 4 mPa included. (calculated frac pressure at depth of 408 mKB x 18.2 kpa/mtr = 7.4 mPa max pressure). Leak off at 100 kPa/min for 10 mins. Pressure stabilizes and holds at 2.5 mPa. Kick in pump and pressure casing to 3.4 mPa. same bleed off to 2.5 mPa. Unable to establish feed rate. No signs activity from SCVF. Bleed off pressure and rig down pump line. - Run 43 joints of tbg, bottom at 411 mKB. Positioned below perforations @ 407 mKB - 409 mKB. Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1 m3 Enviro Syn HCR-7000 15% HCL acid. Break forward circulate and pump acid to tubing bottom. Wash / squeeze at 3 mPa across perfs. Establish feed rate at 130 ltr/min x 3 mPa with 1 m3 fresh water. - Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 279.4 mm - 179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. RIH with CCL / Setting tool and 244 mm cement retainer. Corelate to depth and set retainer 4 mtrs above perforations @ 403 mKB. - Tie in pump line. Pressure test retainer to 7 mPa for 10 mins. Test good. - Secure well, equipment and site. Clean work areas and SDFN. <p>-End report for day.</p>
7/25/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Make up and measure stinger BHA. Run 42 joints of 73 mm J-55 9.67 kg/m tubing out of derrick. Tag top of 244 mm retainer at 403 mKB. - Space out 73 mm tubing string to floor working height and install circulating head. Tie in cementer's pump line to tubing. Sting into retainer. Perform function / pressure tests. Tests good. - Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 3 m3 Thermal 40 + 1% calcium x 1800 kg/m3 cement slurry. Slurry Yield 0.870 m3/t. Fluid loss 0.15 %. Thick time 1.5 hrs. Brought on cement pump at 130 ltrs/min x 2.5 MPa. Mix cement at surface and displace tubing volume at same rate. Started squeezing cement 130 ltrs/min at 1200 kpa. Built positive pressure till squeeze completion. Final pressure at 3 mPa. Stop pumps and held for 10 min flat line. Squeeze 3 m3 cement into perf interval. No signs activity from SCVF during squeeze. Rig down cement pump line. Latch onto tubing with rig. Pick up and find neutral at stinger tool. Turn tubing to right and realease stinger from retainer. No signs activity from SCVF. Tie in rig pump lines and back wash cement from well bore with fresh water. Tie in Cementer's pump line and spot balanced plug on top of retainer with 32 mtrs linear cement (1.2 m3). - Lay out 6 joints of 73 mm tubing. Tie in rig pump and reverse circulate to back wash 2 m3 fresh water. Ensure returns are clean fresh water and shut down pump. Rig down pump lines. Lay out 2 more joints of tbg. - Secure well, equipment and site. Clean work areas and SDFN. <p>-End report for day.</p>
7/26/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Run in 5 joints of 73 mm J-55 6.99 kg/m tubing. Tag cement top 367 mKB with 1800 daN weight - Pull and lay down 36 joints of 73 mm tubing. Tubing displacement leaves fluid level at 28 mKB. - Rig out 73 mm pipe handling equipment and rig floor. Remove 279.4 mm - 34.5 MPa - Class III BOP -Install 279.4 mm casing bowl with 279.4 mm x 244.5 mm master valve well head. Torque down well head and secure valves with chain / lock. - Rig out PWS # 830. Load all 2 7/8" tubing and pipe racks. Load and move support equipment...fire suppression trailer, SABA trailer, rig matts / beam. 400 bbl tanks farm, accumulator, rental equipment, garbage skid, toilet trailer, 11" BOP stack, accumulator and generator shack. Prep remaining mobile equipment for travel and stage, ready to move to PRL 300/F-25/6030-12330/01 in the morning.. Clean well head, lease and work areas. <p>End of report until cut and cap operations.</p>



ARO Daily Op Summary

Well Name: PARAMOUNT ET AL LIARD 2M-25

Well Header

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	License # N2008	State/Province NorthWest Territories	Well Configuration Type Vertical
Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	KB-Ground Distance (m) 7.40	KB-Casing Flange Distance (m) 7.40	Spud Date 3/25/2004	Rig Release Date 7/22/2004

Daily Operations

Start Date	Summary
8/7/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Clean out floc tank full of past cement water and debris. Chip apart cement to solids to suck into hose. Vac unit flull fluids and debris (20 m³) - Vac unit travel to barge staging area. Vac unit to barge across Ft laird River on 8-Aug-2023. - End of report for day.
8/21/2023	<p>HSE Summary: No incident, accidents, or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Trackhoe and bear watch on site form previous operations. - No visible bubbles around wellhead. Swept area and around wellhead for LEL. None detected. Test Production Casing and Surface Casing for LEL. None detected. - Confirm no existence of underground lines near well centre. - Track hoe dig bellhole around wellhead to depth of 4.0 m. Ensure proper slopping, stairway exit and spoil pile spacing from bellhole. - Cut away 3 m of 508 mm conductor. Cement between conductor and surface casing. Cut window in 339.7 mm Surface Casing and 244.5 mm Production Casing. No surface cement between Surface Casing and Production Casing at surface. Cut 244.5 mm Production Casing 2.9 m (11.9 mKB) and 339.7 mm Surface Casing at 3.0 m (12.0 mKB) depth delow surface casing flange. - Remove wellhead from bellhole. Stitch (vent) weld 6.3 mm plate on top of Production Casing and Surface Casing. Weld write 2M-25 / 2008 on 244.5 mm Production Casing cap. - Back fill and tamp bellhole. Rough level surface ground. - Install (orange)Tombomstone Surface Marker onto 73 mm pipe. Pipe is anchored and located 1.0 m x North of well centre. Weld write on tombstone marker N 2008 + Paramount Res Ltd + 08/23-2023 + 60°24'52.668" N + 123°35'28.824" W + NAD 83 - Rough back fill bell hole. Leave equipment on side of site. - End report for day. <p>*** Adjust final costs as received***</p>



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/19/2023

Report #: 1

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
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Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical
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KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)
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Casing Strings									
Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)	ID (mm)	Wt/Len (kg/m)	Grade	Top Thread
Conductor	3/25/2004	13.00	7.40	5.60	508.0				
Surface	3/27/2004	383.00	7.40	375.60	339.7	315.3	101.195	K-55	
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5	224.4	59.527	N-80	
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8	157.1	43.157	MN-80 Hydril SLX	
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4				

Zones / Event Sequence									
Zone Name	Zone Code							Current Status	

Job Information / AFE									
Objective									
Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.									
Target Formation Nahanni									

Daily Pressures									
Subtype									P (kPa)
SICP									0

Operation Summary									
Operations Next Report Period									
Wire line run 210 mm Gauge Ring. Tag PBTD. Run in CCL/RBL log. Log well from PBTD to surface. Run 73 mm tubing string to PBTD.									
Operation at 6am Wait on daylight.									

24 Hr Operational Comments									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details		
00:00	15:30	15.50	15.50	WOE	PP		Wait on equipment to complete operations on PRL 300/M-25-6030-12330.		
15:30	15:45	0.25	15.75	Safety Mtg	PP		Held safety and operational meeting. Review contractor JSA and Hazard Controls for service rig operations to rig in and pressure test equipment. Air ERP # QW-421.		
15:45	16:45	1.00	16.75	RU/RD	PP		Loader move and spot equipment from operations PRL 300/M-25-6030-12330 as needed.		
							Rig up PWS # 830, Fire Suppression unit, hydraulic catwalk, pipe racks, and support equipment on site as per industry, government, contractor and PRL spacing rules and regulations. Perform ongoing CAOCD inspection as use equipment. +		
16:45	17:45	1.00	17.75	BOPS	PP		Run remote accumulator lines to 279.4 mm Class III BOP. Function BOP's. Start 21 MPa. Close blind 8 sec. Close pipe rams 8 sec. Close annular 42 secs. Final pressure 11 MPa. Recharge 217 secs.		
							Stump test blind rams and pipe rams 1.4 MPa and 30 MPa. Held 10 min. Test annular bag 1.4 MPa and 10 MPa. Held 10 min.		
17:45	18:00	0.25	18.00	NU/ND WH/XT	PP		Remove 279.4 mm Adapter Flange with 279.4 mm x 279.4 mm - 34.5 MPa Master Valve.		
18:00	18:30	0.50	18.50	BOPS	PP		Install 279.4 mm - 34.5 MPa - Class III BOP and 73 mm tubing handling equipment.		
18:30	19:00	0.50	19.00	PRESS	PP		Install 279.4 mm - 34.5 MPa - Class III BOP and tubing handling equipment. Pressure test wellhead connection and 244.5 mm casing to 1.4 MPa (low) and 14.0 MPa (high). Held each test 10 minutes.		
19:00	19:30	0.50	19.50	SDFN	PP		Clean and secure wellhead. Travel to base.		
19:30	00:00	4.50	24.00	WOD	PP		End report for day.		
							Wait on daylight		

6:00 Update									
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details			
00:00	06:00	6.00		PP		Wait on daylight.			

Other In Hole									
Des									
Bridge Plug - Permanent									
Bridge Plug - Permanent									

Des									
Bridge Plug - Permanent	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
Bridge Plug - Permanent		156.0	2,900.00	2,901.00					
Thermal Cement		230.0	1,287.00	1,287.20					

Des									
Bridge Plug - Permanent	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
Bridge Plug - Permanent		156.0	2,900.00	2,901.00					
Thermal Cement		230.0	1,287.00	1,287.20					

Des									
Bridge Plug - Permanent	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
Bridge Plug - Permanent		156.0	2,900.00	2,901.00					
Thermal Cement		230.0	1,287.00	1,287.20					

Des									
Bridge Plug - Permanent	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
Bridge Plug - Permanent		156.0	2,900.00	2,901.00					
Thermal Cement		230.0	1,287.00	1,287.20					

Des									
Bridge Plug - Permanent	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
Bridge Plug - Permanent		156.0	2,900.00	2,901.00					
Thermal Cement		230.0	1,287.00	1,287.20					

Des									
Bridge Plug - Permanent	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
Bridge Plug - Permanent		156.0	2,900.00	2,901.00					
Thermal Cement		230.0	1,287.00	1,287.20					

Des									
Bridge Plug - Permanent	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
Bridge Plug - Permanent		156.0	2,900.00	2,901.00					
Thermal Cement		230.0	1,287.00	1,287.20					



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/19/2023

Report #: 1

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008		
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical			
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)				
Other In Hole							
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date		
Cement Retainer (Permanent)		224.4	603.00	604.00	7/22/2023 13:00		
Thermal Cement		224.4	604.00	611.00	7/22/2023 13:30		
Fresh Water (Permanent)		224.4	611.00	1,257.00	7/22/2023 13:31		
Cement Retainer (Permanent)		224.4	402.91	404.00	7/24/2023 18:00		
Thermal Cement		224.4	404.00	410.00	7/25/2023 09:00		
Thermal Cement		224.4	368.00	402.91	7/25/2023 12:30		
Fresh Water (Permanent)		224.4	410.00	603.00	7/25/2023 12:32		
Fresh Water (Permanent)		224.4	28.00	368.00	7/26/2023 09:00		
Bill 30 Requirements (Head Count Only)							
Type				Count			
Day Shift				15			
Safety				15			
Contractor Hours (Head Count & Hours)							
Type				Count	Reg Work Time (hr)		
Flare Permit							
Contract # C03040 C	Agreement Start Date 11/25/2020			Agreement End Date			
Flaring Volumes							
Type	Subtype	Des	Amount	Units			
		No Gas Flared					
Report Fluids Summary							
Fluid	Cum to Lease (m³)	Cum fm lease (m³)	Lease Bal (m³)	Cum to Well (m³)	Cum from Well (m³)	Left to recover (m³)	Cum Non-recov (m³)
Water	113.00	0.00	113.00				
Weather & Road Condition							
Weather			T (°C)	Road Cond			
Smoke			27	Fair			



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/20/2023

Report #: 2

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008				
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical					
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)						
Casing Strings									
Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)				
Conductor	3/25/2004	13.00	7.40	5.60	508.0				
Surface	3/27/2004	383.00	7.40	375.60	339.7				
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5				
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8				
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4				
Zones / Event Sequence									
Zone Name		Zone Code		Current Status					
Job Information / AFE									
Objective									
Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.									
Target Formation									
Nahanni									
Daily Pressures									
Subtype			P (kPa)						
SICP			0						
Operation Summary									
Operations Next Report Period									
Run in 73 mm tubing string. Tag cement top.									
Operation at 6am									
Wait on daylight.									
24 Hr Operational Comments									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details		
00:00	06:00	6.00	6.00	WOD	PP		Wait on daylight.		
06:00	06:15	0.25	6.25	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.		
06:15	06:45	0.50	6.75	TTLY	PP		Travel contractors across Ft Laird river via jet boat		
06:45	07:00	0.25	7.00	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421		
07:00	08:30	1.50	8.50	WOE	PP		Wait on wireline personell to arrive.		
08:30	13:30	5.00	13.50	WL Logs	PP		Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 279.4 mm - 179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. RIH with 210 mm gauge ring / junk basket to 1271.5 mKB. Retrieve tools to surface. Run in CCL / RBL Tool String. Perform high speed pass to top of cemented bridge plug @ 1271.5 mKB. Correlate on depth to surface casing depth 383 mKB. Log from 1270 mKB to surface. Log to be sent to Calgary ASAP. Rig down wire line equipment and 279.4 mm - 179.4 mm DSA.		
13:30	15:30	2.00	15.50	RIHPOOH	PP		Run in 136 joints of 73 mm J-55 9.67 kg/m tubing. Tag cement on top of bridge plug @ 1287 mKB. Lay out 1 joint and position tubing bottom 1285 mKB. Estimated well bore temp 55°C at depth.		
15:30	16:30	1.00	16.50	Circulating	PP		Rig in circulation lines. Reverse circulate 54 m3 fresh water at 750 ltr/min x 5.5 MPa. Returns show 0 ppm salinity and are clean. Rig down circulation lines.		
16:30	17:30	1.00	17.50	Cmt	PP		Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1.2 m³ Charger Thermal 40 + 0.3% CHRT-H x 1800 kg/m³ cement slurry. Slurry Yield 0.870 m³/t. Fluid loss 0.15 %. Thick time 1.5 hrs. Pump rate 400 L/min x 3 MPa. Displace behind cement slurry 3.8 m³ fresh (non-saline) water 13°C. Circulated and balance cement plug from 1257 mKB to 1287 mKB. No signs activity from SCVF. Rig down pump line.		
17:30	17:45	0.25	17.75	RIHPOOH	PP		Lay down 6 joints 73 mm tubing. Position tubing bottom 1228 mKB.		
17:45	18:15	0.50	18.25	Circulating	PP		Rig in circulation lines. Reverse circulate 7 m³ fresh water at 400 L/min x 3.0 MPa. Returns returns are clean fresh (non-saline) water. Send last 3 m3 to vac truck with retarder mixed for possible cement slurry. Rig down circulation lines. Rig out and release cement units and vac unit. **Vac unit haul 3 m³ water to floc tank at KM 18 tank farm		
18:15	18:30	0.25	18.50	RIHPOOH	PP		Lay down 2 joints of 73 mm J-55 6.99 kg/m tubing. Position tubing bottom 1209 mKB for night.		



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/20/2023

Report #: 2

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
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Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical
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KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)
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24 Hr Operational Comments						
Start Time End Time Dur (hr) Cum Dur (hr) Time Code Ops Category NPT Operation Details						
18:30	19:00	0.50	19.00	SDFN	PP	Secure well, equipment and site. Clean work areas and SDFN. Travel to base.
End report for day.						

19:00	00:00	5.00	24.00	WOD	PP	Wait on daylight.
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6:00 Update						
Start Time End Time Dur (hr) Time Code Ops Category NPT Operation Details						
00:00	06:00	6.00		PP		Wait on daylight.

Other In Hole						
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	
Bridge Plug - Permanent		156.0	2,900.00	2,901.00		
Bridge Plug - Permanent		230.0	1,287.00	1,287.20		
Thermal Cement		224.4	1,257.00	1,287.20	7/20/2023 00:00	
Cement Retainer (Permanent)		224.4	603.00	604.00	7/22/2023 13:00	
Thermal Cement		224.4	604.00	611.00	7/22/2023 13:30	
Fresh Water (Permanent)		224.4	611.00	1,257.00	7/22/2023 13:31	
Cement Retainer (Permanent)		224.4	402.91	404.00	7/24/2023 18:00	
Thermal Cement		224.4	404.00	410.00	7/25/2023 09:00	
Thermal Cement		224.4	368.00	402.91	7/25/2023 12:30	
Fresh Water (Permanent)		224.4	410.00	603.00	7/25/2023 12:32	
Fresh Water (Permanent)		224.4	28.00	368.00	7/26/2023 09:00	

Bill 30 Requirements (Head Count Only)						
Type						Count
Day Shift						15

Contractor Hours (Head Count & Hours)						
Type						Count
						15

Flare Permit						
Contract # C03040 C						

Flaring Volumes						
Type	Subtype	Des	Amount	Units		

No Gas Flared						
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Report Fluids Summary						
Fluid	Cum to Lease (m³)	Cum fm lease (m³)	Lease Bal (m³)	Cum to Well (m³)	Cum from Well (m³)	Left to recover (m³)
Other	60.00	0.00	60.00			
Water	113.00	4.00	109.00	55.00	55.00	0.00

Weather & Road Condition						
Weather			T (°C)		Road Cond	
Smoke			22		Fair	

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Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/21/2023

Report #: 3

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
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Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical
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KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)
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Casing Strings
Csg Des
Conductor
Surface
Intermediate
Production
Open Hole

Conductor	Run Date 3/25/2004	Set Depth (mKB) 13.00	Top (mKB) 7.40	Len (m) 5.60	OD (mm) 508.0	ID (mm)	Wt/Len (kg/m)	Grade	Top Thread
Surface	3/27/2004	383.00	7.40	375.60	339.7	315.3	101.195	K-55	
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5	224.4	59.527	N-80	
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8	157.1	43.157	MN-80 Hydril SLX	
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4				

Zones / Event Sequence
Zone Name

Zone Name	Zone Code	Current Status

Job Information / AFE

Objective

Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.
Target Formation
Nahanni
Daily Pressures
Subtype
SICP
P (kPa)
0

Operation Summary

Operations Next Report Period

Run in hole 73 mm tubing. spot acid.

Operation at 6am

Wait on daylight.

24 Hr Operational Comments

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00	6.00	WOD	PP		Wait on daylight.
06:00	06:15	0.25	6.25	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.
06:15	06:45	0.50	6.75	TTLY	PP		Travel contractors across Ft Laird river via jet boat
06:45	07:00	0.25	7.00	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421
07:00	07:30	0.50	7.50	RIHPOOH	PP		Run in 5 joints of 73 mm J-55 6.99 kg/m tubing. Tag cement top 1259 mKB with 1800 daN weight.
07:30	10:00	2.50	10.00	POOH	PP		Pull and lay down 63 joints of 73 mm tubing. Stand 64 jnts (601 mtrs) in the derrick.
10:00	15:30	5.50	15.50	NR	PP		Operations wait for approval of intended remedial perf intervals from OROGO.
15:30	17:30	2.00	17.50	PERF	PP		Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 279.4 mm - 179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. Make up and RIH with CCL / 1 mtr x127 mm ERHCS perf gun c/w 20 gram SDP charges @ 20 SPM x 60°. Correlate to depth and perforate interval 608 - 609 mKB. Retrieve spent gun to surface. RIH with second 1mtr gun and perforate 609 - 610 mKB (BGWP). Retrieve spent gun to surface. Rig down and lay out wireline equipment.
17:30	18:00	0.50	18.00	INJECT	PP		Close blind rams and perform injectivity test. Takes 900 ltrs fresh water to fill hole. Pressure up to 5 mPa SFC pressure which is max frac pressure with hydrostatic of 5.98 mPa included. (calculated frac pressure at depth of 610 mKB x18.2 kpa/mtr = 11 mPa max pressure). Held solid for 10 mins. Bled off pressure and rigged down pump line.
18:00	18:30	0.50	18.50	SDFN	PP		Secure well, equipment and site. Clean work areas and SDFN. Travel to base. End report for day.
18:30	00:00	5.50	24.00	WOD	PP		Wait on daylight.

6:00 Update

Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00		PP		Wait on daylight.

Other In Hole

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent	██████████	156.0	2,900.00	2,901.00	



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/21/2023

Report #: 3

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008		
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical			
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)				
Other In Hole							
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date		
Bridge Plug - Permanent		230.0	1,287.00	1,287.20			
Cement Retainer (Permanent)		224.4	603.00	604.00	7/22/2023 13:00		
Thermal Cement		224.4	604.00	611.00	7/22/2023 13:30		
Fresh Water (Permanent)		224.4	611.00	1,257.00	7/22/2023 13:31		
Cement Retainer (Permanent)		224.4	402.91	404.00	7/24/2023 18:00		
Thermal Cement		224.4	404.00	410.00	7/25/2023 09:00		
Thermal Cement		224.4	368.00	402.91	7/25/2023 12:30		
Fresh Water (Permanent)		224.4	410.00	603.00	7/25/2023 12:32		
Fresh Water (Permanent)		224.4	28.00	368.00	7/26/2023 09:00		
Bill 30 Requirements (Head Count Only)							
Type			Count				
Day Shift					15		
Contractor Hours (Head Count & Hours)							
Type			Count		Reg Work Time (hr)		
Flare Permit							
Contract # C03040 C	Agreement Start Date 11/25/2020		Agreement End Date				
Flaring Volumes							
Type	Subtype	Des	Amount		Units		
		No Gas Flared					
Report Fluids Summary							
Fluid	Cum to Lease (m³)	Cum fm lease (m³)	Lease Bal (m³)	Cum to Well (m³)	Cum from Well (m³)	Left to recover (m³)	Cum Non-recov (m³)
Other	60.00	0.00	60.00				
Water	113.00	67.00	46.00	55.00	55.00	0.00	
Weather & Road Condition							
Weather		T (°C)		Road Cond			
Smoke		24		Fair			



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/22/2023

Report #: 4

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
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Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical
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KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)
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Casing Strings

Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)	ID (mm)	Wt/Len (kg/m)	Grade	Top Thread
Conductor	3/25/2004	13.00	7.40	5.60	508.0				
Surface	3/27/2004	383.00	7.40	375.60	339.7	315.3	101.195	K-55	
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5	224.4	59.527	N-80	
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8	157.1	43.157	MN-80 Hydril SLX	
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4				

Zones / Event Sequence

Zone Name	Zone Code	Current Status

Job Information / AFE

Objective Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.

Target Formation Nahanni

Daily Pressures

Subtype	P (kPa)
SICP	0

Operation Summary

Operations Next Report Period RIH with 73 mm tubing and stinger BHA. Set in retainer and cement.

Operation at 6am Wait on daylight.

24 Hr Operational Comments

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00	6.00	WOD	PP		Wait on daylight.
06:00	06:15	0.25	6.25	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.
06:15	06:45	0.50	6.75	TTLY	PP		Travel contractors across Ft Laird river via jet boat
06:45	07:00	0.25	7.00	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421
07:00	09:00	2.00	9.00	TIH	PP		Run 64 joints of 73 mm J-55 9.67 kg/m tubing out of derrick. Spot tubing bottom at 612 mKB. Positioned below perforations @ 608 mKB - 610 mKB.
09:00	10:30	1.50	10.50	ACID	PP		Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1 m3 Enviro Syn HCR-7000 15% HCL acid. Break forward circulate and pump acid to tubing bottom. Wash / squeeze at 4 MPa across perfs at 608 mKB - 610 mKB. See feed rate of 50 ltr/min x 3.2 MPa for 100 ltrs. Stop pump 15 mins. squeeze with fresh acid every 15 mins for 100 ltrs. Pick up tbg and pump last 100 ltrs acid into perfs. Final feed rate is 125 ltrs/min x 3.2 MPa with 1 m3 fresh water. No signs activity from SCVF. Rig down pump line.
10:30	11:00	0.50	11.00	TOOH	PP		TOOH with and stand back in derrick 64 joints of 73 mm J-55 9.67 kg/m tubing.
11:00	12:00	1.00	12.00	ELECL	PP		Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 279.4 mm - 179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. RIH with CCL / Setting tool and 244 mm cement retainer. Corelate to depth and set retainer 5 mtrs above perforation in the next casing joint above @ 603 mKB. Retrive setting tools to surface. Rig down wire line equipment and 279.4 mm - 179.4 mm DSA.
12:00	12:30	0.50	12.50	Circulating	PP		Tie in pump line, fill hole with 900 ltrs fresh water and pressure test retainer to 7 MPa for 10 mins. Test good. Bleed off pressure and rig down pump line.
12:30	13:00	0.50	13.00	SDFN	PP		Secure well, equipment and site. Clean work areas and SDFN. Precision rig #830 crew travels to Fort St John for crew change. End report for day.
13:00	00:00	11.00	24.00	WOD	PP		Wait on daylight and new rig crew.

6:00 Update

Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00		PP		Wait on daylight.



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/22/2023

Report #: 4

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical	
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)		
Other In Hole					
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent		156.0	2,900.00	2,901.00	
Bridge Plug - Permanent		230.0	1,287.00	1,287.20	
Cement Retainer (Permanent)		224.4	603.00	604.00	7/22/2023 13:00
Thermal Cement		224.4	604.00	611.00	7/22/2023 13:30
Fresh Water (Permanent)		224.4	611.00	1,257.00	7/22/2023 13:31
Cement Retainer (Permanent)		224.4	402.91	404.00	7/24/2023 18:00
Thermal Cement		224.4	404.00	410.00	7/25/2023 09:00
Thermal Cement		224.4	368.00	402.91	7/25/2023 12:30
Fresh Water (Permanent)		224.4	410.00	603.00	7/25/2023 12:32
Fresh Water (Permanent)		224.4	28.00	368.00	7/26/2023 09:00
Bill 30 Requirements (Head Count Only)					
Type			Count		
Day Shift					15
Contractor Hours (Head Count & Hours)					
Type			Count		Reg Work Time (hr)
Flare Permit					
Contract # C03040 C	Agreement Start Date 11/25/2020		Agreement End Date		
Report Fluids Summary					
Fluid	Cum to Lease (m³)	Cum fm lease (m³)	Lease Bal (m³)	Cum to Well (m³)	Cum from Well (m³)
Acid			-1.00	1.00	0.00
Other	60.00	0.00	60.00		
Water	113.00	67.00	46.00	55.00	55.00
Weather & Road Condition					
Weather		T (°C)		Road Cond	
Smoke		22		Fair	



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/23/2023

Report #: 5

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008				
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical					
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)						
Casing Strings									
Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)				
Conductor	3/25/2004	13.00	7.40	5.60	508.0				
Surface	3/27/2004	383.00	7.40	375.60	339.7				
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5				
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8				
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4				
Zones / Event Sequence									
Zone Name		Zone Code		Current Status					
Job Information / AFE									
Objective									
Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.									
Target Formation									
Nahanni									
Daily Pressures									
Subtype									
SICP									
Operation Summary									
Operations Next Report Period									
Tag cement top.									
Operation at 6am									
Wait on daylight.									
24 Hr Operational Comments									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details		
00:00	06:00	6.00	6.00	WOD	PP		Wait on daylight.		
06:00	06:15	0.25	6.25	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.		
06:15	06:45	0.50	6.75	TTLY	PP		Travel contractors across Ft Laird river via jet boat		
06:45	07:45	1.00	7.75	Safety Mtg	PP		Held safety and operational meeting. Held new crew general ops orientation. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421		
07:45	11:00	3.25	11.00	TIH	PP		Make up and measure stinger BHA. Run 62 joints of 73 mm J-55 9.67 kg/m tubing out of derrick. Tag top of 244 mm retainer at 603 mKB.		
11:00	12:30	1.50	12.50	RU/RD	PP		Space out 73 mm tubing string to floor working height and install circulating head. Tie in cementer's pump line to tubing. Break forward circulation with cement pump at 50 ltrs/min. Wash and lower stinger into retainer. Stop pump. Set stinger into compression, turn tubing quarter turn to left to lock and pick up 2000 daN over string weight to close tubing at tool. Start up cement pump and pressure test tubing to 7 mPa. Hold for 10 mins. Test good. Bleed off tubing pressure and set string weight back in 2000 daN compression. Tie in service rig pump to pressure annulus to 7 mPa. Hold for 10 mins. Test good. Bleed of annulus.		
12:30	15:00	2.50	15.00	CEMT	PP		Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 4 m3 Thermal 40 + 1% calcium x 1800 kg/m3 cement slurry. Slurry Yield 0.870 m3/t. Fluid loss 0.15 %. Thick time 1.5 hrs. Brought on cement pump at 130 ltrs/min x 2.5 MPa. Displacement behind cement slurry is 500 ltrs of fresh (non-saline) water 13°C. Started squeezing 30 ltrs/min at 200 kpa. Built positive pressure till squeeze completion. Final pressure at 3 mPa. Stop pumps and held for 10 min flat line. Squeeze 2.7 m3 cement into perf interval and hold remaining cement in tubing. No signs activity from SCVF. Rig down cement pump line. Latch onto tubing with rig. Pick up and find neutral at stinger tool. Turn tubing to right and realease stinger from retainer. Pull slowly and lay out 2 joint of 73 mm tubing. Cap retainer with 32 mtrs linear cement (1.3 m3) as it falls out of tubing.		
15:00	16:30	1.50	16.50	Circulating	PP		Lay out 6 joints of 73 mm tubing. Tie in rig pump and reverse circulate to back wash 3 m3 fresh water. Ensure returns are clean fresh water and shut down pump. Rig down pump lines. Lay out 2 more joints of tbg.		
16:30	17:00	0.50	17.00	SDFN	PP		Secure well, equipment and site. Clean work areas and SDFN. End report for day.		
17:00	00:00	7.00	24.00	WOD	PP		Wait on daylight.		



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/23/2023

Report #: 5

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
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Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical
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KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)
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6:00 Update

Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00		PP		Wait on daylight.

Other In Hole

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent	██████	156.0	2,900.00	2,901.00	
Bridge Plug - Permanent	██████	230.0	1,287.00	1,287.20	
Cement Retainer (Permanent)	██████	224.4	402.91	404.00	7/24/2023 18:00
Thermal Cement	██████	224.4	404.00	410.00	7/25/2023 09:00
Thermal Cement	██████	224.4	368.00	402.91	7/25/2023 12:30
Fresh Water (Permanent)	██████	224.4	410.00	603.00	7/25/2023 12:32
Fresh Water (Permanent)	██████	224.4	28.00	368.00	7/26/2023 09:00

Bill 30 Requirements (Head Count Only)

Type	Count
Day Shift	15

Contractor Hours (Head Count & Hours)

Type	Count	Reg Work Time (hr)

Flare Permit

Contract # C03040 C	Agreement Start Date 11/25/2020	Agreement End Date
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Report Fluids Summary

Fluid	Cum to Lease (m ³)	Cum fm lease (m ³)	Lease Bal (m ³)	Cum to Well (m ³)	Cum from Well (m ³)	Left to recover (m ³)	Cum Non-recov (m ³)
Acid			-1.00	1.00	0.00	1.00	
Other	60.00	0.00	60.00				
Water	113.00	85.00	28.00	55.00	55.00	0.00	

Weather & Road Condition

Weather	T (°C)	Road Cond
Drizzle / Mist	15	Fair



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/24/2023

Report #: 6

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008		
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical			
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)				
Casing Strings							
Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)		
Conductor	3/25/2004	13.00	7.40	5.60	508.0		
Surface	3/27/2004	383.00	7.40	375.60	339.7		
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5		
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8		
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4		
Zones / Event Sequence							
Zone Name		Zone Code		Current Status			
Job Information / AFE							
Objective Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.							
Target Formation Nahanni							
Daily Pressures							
Subtype			P (kPa)				
SICP			0				
Operation Summary							
Operations Next Report Period RIH with 73 mm tubing and stinger BHA.							
Operation at 6am Wait on daylight.							
24 Hr Operational Comments							
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00	6.00	WOD	PP		Wait on daylight.
06:00	06:15	0.25	6.25	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.
06:15	09:45	3.50	9.75	WOW	PP		Dense fog conditions. Unable to safely transport people across Liard River on jet boat until visibility improves. On standby monitoring.
09:45	10:15	0.50	10.25	TTLY	PP		Fog lifts. Travel contractors across Ft Laird river via jet boat
10:15	10:30	0.25	10.50	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421.
10:30	11:30	1.00	11.50	RIHPOOH	PP		Pick up and RIH with 3 joints of 73 mm J-55 9.67 kg/m tubing. Tag cement top of 244 mm retainer at 569.32 mKB (equals to 33.6 linear meters of cement on retainer set @ 603 mKB). Set down 1800 daN string weight. TOOH and lay out 18 joints of 73 mm tubing. Stand remaining 42 joints of tubing in the derrick.
11:30	13:30	2.00	13.50	PERF	PP		Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 279.4 mm - 179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. Make up and RIH with CCL / 1 mtr x 127 mm ERHCS perf gun c/w 20 gram SDP charges @ 20 SPM x 60*. Correlate to depth and perforate interval 408 - 409 mKB. Retrieve spent gun to surface. RIH with second 1mtr gun and perforate 407 - 408 mKB (Flett). Retrieve spent gun to surface. Rig down and lay out wireline equipment.
13:30	14:00	0.50	14.00	INJECT	PP		Close blind rams and perform injectivity test. Takes 750 ltrs fresh water to fill hole. Pressure up to 3.4 mPa SFC pressure which is max frac pressure with hydrostatic of 4 mPa included. (calculated frac pressure at depth of 408 mKB x 18.2 kpa/mtr = 7.4 mPa max pressure). Leak off at 100 kPa/min for 10 mins. Pressure stabilizes and holds at 2.5 mPa. Kick in pump and pressure casing to 3.4 mPa. same bleed off to 2.5 mPa. Unable to establish feed rate. No signs activity from SCVF. Bleed off pressure and rig down pump line.
14:00	15:00	1.00	15.00	TIH	PP		Run 42 joints of 73 mm J-55 9.67 kg/m tubing out of derrick. Pick up 1 jnt off pipe racks. RIH and spot tubing bottom at 411 mKB. Positioned below perforations @ 407 mKB - 409 mKB.
15:00	16:45	1.75	16.75	ACID	PP		Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1 m3 Enviro Syn HCR-7000 15% HCL acid. Break forward circulate and pump acid to tubing bottom. Wash / squeeze at 3 mPa across perfs at 407 mKB - 409 mKB. See feed rate of 30 ltr/min x 1.6 mPa for 100 ltrs. Stop pump 15 mins. squeeze with fresh acid every 15 mins for 100 ltrs. Pick up tbg and pump last 100 ltrs acid into perfs. Final feed rate is 130 ltrs/min x 3.mPa with 1 m3 fresh water. No signs activity from SCVF. Rig down pump line.



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/24/2023

Report #: 6

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
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Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical
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KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)
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24 Hr Operational Comments

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
16:45	17:15	0.50	17.25	TOOH	PP		TOOH with and stand back in derrick 42 joints of 73 mm J-55 9.67 kg/m tubing.
17:15	18:15	1.00	18.25	ELECL	PP		Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 279.4 mm - 179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. RIH with CCL / Setting tool and 244 mm cement retainer. Corelate to depth and set retainer 4 mtrs above perforations @ 403 mKB. Retreive setting tools to surface. Rig down wire line equipment and 279.4 mm - 179.4 mm DSA.
18:15	18:30	0.25	18.50	PRESS	PP		Tie in pump line, fill hole with 300 ltrs fresh water and pressure test retainer to 7 mPa for 10 mins. Test good. Bleed off pressure and rig down pump line.
18:30	19:00	0.50	19.00	SDFN	PP		Secure well, equipment and site. Clean work areas and SDFN. End report for day.
19:00	00:00	5.00	24.00	WOD	PP		Wait on daylight.

6:00 Update

Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00		PP		Wait on daylight.

Other In Hole

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent	████	156.0	2,900.00	2,901.00	
Bridge Plug - Permanent	████	230.0	1,287.00	1,287.20	
Cement Retainer (Permanent)	████████	224.4	402.91	404.00	7/24/2023 18:00
Thermal Cement	████	224.4	404.00	410.00	7/25/2023 09:00
Thermal Cement	████	224.4	368.00	402.91	7/25/2023 12:30
Fresh Water (Permanent)	████	224.4	410.00	603.00	7/25/2023 12:32
Fresh Water (Permanent)	████	224.4	28.00	368.00	7/26/2023 09:00

Bill 30 Requirements (Head Count Only)

Type	Count
Day Shift	18

Contractor Hours (Head Count & Hours)

Type	Count	Reg Work Time (hr)

Flare Permit

Contract # C03040 C	Agreement Start Date 11/25/2020	Agreement End Date
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Report Fluids Summary

Fluid	Cum to Lease (m³)	Cum fm lease (m³)	Lease Bal (m³)	Cum to Well (m³)	Cum from Well (m³)	Left to recover (m³)	Cum Non-recov (m³)
Acid			-1.00	1.00	0.00	1.00	
Other	60.00	0.00	60.00				
Water	113.00	85.00	28.00	55.00	55.00	0.00	

Weather & Road Condition

Weather	T (°C)	Road Cond
Rain	20	Fair



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/25/2023

Report #: 7

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008		
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical			
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)				
Casing Strings							
Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)		
Conductor	3/25/2004	13.00	7.40	5.60	508.0		
Surface	3/27/2004	383.00	7.40	375.60	339.7		
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5		
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8		
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4		
Zones / Event Sequence							
Zone Name		Zone Code		Current Status			
Job Information / AFE							
Objective							
Well Abandonment.	Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.						
Target Formation							
Nahanni							
Daily Pressures							
Subtype			P (kPa)				
SICP			0				
Operation Summary							
Operations Next Report Period							
Tag cement top. TOOH lay out tbg. Rig out.							
Operation at 6am							
Wait on daylight.							
24 Hr Operational Comments							
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00	6.00	WOD	PP		Wait on daylight.
06:00	06:15	0.25	6.25	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.
06:15	06:45	0.50	6.75	TTLY	PP		Travel contractors across Ft Laird river via jet boat
06:45	07:00	0.25	7.00	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421
07:00	08:00	1.00	8.00	TIH	PP		Make up and measure stinger BHA. Run 42 joints of 73 mm J-55 9.67 kg/m tubing out of derrick. Tag top of 244 mm retainer at 403 mKB.
08:00	09:00	1.00	9.00	RU/RD	PP		Space out 73 mm tubing string to floor working height and install circulating head. Drop into retainer and set stinger into compression, turn tubing quarter turn to left to lock and pick up 2000 daN over string weight to close tubing at tool. Start up cement pump and pressure test tubing to 7 mPa. Hold for 10 mins. Test good. Bleed off tubing pressure and set string weight back in 2000 daN compression. Tie in service rig pump to pressure annulus to 7 mPa. Hold for 10 mins. Test good. Bleed of annulus.
09:00	10:30	1.50	10.50	CEMT	PP		Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 3 m3 Thermal 40 + 1% calcium x 1800 kg/m3 cement slurry. Slurry Yield 0.870 m3/t. Fluid loss 0.15 %. Thick time 1.5 hrs. Brought on cement pump at 130 ltrs/min x 2.5 MPa. Mix cement at surface and displace tubing volume at same rate. Started squeezing cement 130 ltrs/min at 1200 kpa. Built positive pressure till squeeze completion. Final pressure at 3 mPa. Stop pumps and held for 10 min flat line. Squeeze 3 m3 cement into perf interval. No signs activity from SCVF during squeeze. Rig down cement pump line. Latch onto tubing with rig. Pick up and find neutral at stinger tool. Turn tubing to right and release stinger from retainer.
10:30	12:00	1.50	12.00	Circulating	PP		Sit tubing bottom just above retainer and tie in service rig pump to back wash / reverse circulate 2 m3 to vac truck. Stop pumps and rig down pump line.
12:00	12:30	0.50	12.50	CEMT	PP		Rig in cement pump to tubing. Test to 16.0 MPa. Held 5 minutes. Mix and pump 1.2 m3 Charger Thermal 40 + 0.3% CHRT-H x 1800 kg/m3 cement slurry. Slurry Yield 0.870 m3/t. Fluid loss 0.15 %. Thick time 1.5 hrs. Pump rate 400 L/min x 3 MPa. Circulated and balance cement plug on top of retainer @ 403 mKB to 368 mKB. No signs activity from SCVF. Rig down pump line.
12:30	14:00	1.50	14.00	Circulating	PP		Lay out 6 joints of 73 mm tubing. Tie in rig pump and reverse circulate to back wash 3 m3 fresh water. Ensure returns are clean fresh water and shut down pump. Rig down pump lines. Lay out 2 more joints of tbg.



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/25/2023

Report #: 7

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical	
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)		

24 Hr Operational Comments

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
14:00	15:00	1.00	15.00	Cmt	PP		Rig in cement pump to tubing. Test to 16.0 MPa. Held 5 minutes. Mix and pump 1.2 m ³ Charger Thermal 40 + 0.3% CHRT-H x 1800 kg/m ³ cement slurry. Slurry Yield 0.870 m ³ /t. Fluid loss 0.15 %. Thick time 1.5 hrs. Pump rate 400 L/min x 3 MPa. Circulated and balance cement plug on top of retainer @ 403 mKB to 368 mKB. No signs activity from SCVF. Rig down pump line.
15:00	15:30	0.50	15.50	Circulating	PP		Rig in circulation lines. Reverse circulate 2 m ³ fresh water. Returns returns are clean fresh (non-saline) water. Send all returns to vac truck with retarder mixed for possible cement slurry. Rig down circulation lines. Rig out and release cement units and vac unit. **Vac unit haul 6 m ³ water to floc tank at KM 18 tank farm
15:30	15:45	0.25	15.75	RIHPOOH	PP		Lay down 6 joints 73 mm tubing.
15:45	16:00	0.25	16.00	RIHPOOH	PP		Lay down 2 more joints of 73 mm tubing. Position string bottom @ 326.92 mKB for night.
16:00	16:30	0.50	16.50	SDFN	PP		Secure well, equipment and site. Clean work areas and SDFN. End report for day.
16:30	00:00	7.50	24.00	WOD	PP		Wait on daylight.

6:00 Update

Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00		PP		Wait on daylight.

Other In Hole

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent	████	156.0	2,900.00	2,901.00	
Bridge Plug - Permanent	████	230.0	1,287.00	1,287.20	
Thermal Cement	███	224.4	404.00	410.00	7/25/2023 09:00
Thermal Cement	███	224.4	368.00	402.91	7/25/2023 12:30
Fresh Water (Permanent)	███	224.4	410.00	603.00	7/25/2023 12:32
Fresh Water (Permanent)	███	224.4	28.00	368.00	7/26/2023 09:00

Bill 30 Requirements (Head Count Only)

Type	Count
Day Shift	15

Contractor Hours (Head Count & Hours)

Type	Count	Reg Work Time (hr)

Flare Permit

Contract # C03040 C	Agreement Start Date 11/25/2020	Agreement End Date
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Report Fluids Summary

Fluid	Cum to Lease (m ³)	Cum fm lease (m ³)	Lease Bal (m ³)	Cum to Well (m ³)	Cum from Well (m ³)	Left to recover (m ³)	Cum Non-recov (m ³)
Acid			-1.00	1.00	0.00	1.00	
Other	60.00	0.00	60.00				
Water	113.00	93.00	20.00	55.00	55.00	0.00	

Weather & Road Condition

Weather	T (°C)	Road Cond
Rain	15	Fair



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/26/2023

Report #: 8

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical	
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)		

Casing Strings

Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)	ID (mm)	Wt/Len (kg/m)	Grade	Top Thread
Conductor	3/25/2004	13.00	7.40	5.60	508.0				
Surface	3/27/2004	383.00	7.40	375.60	339.7	315.3	101.195	K-55	
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5	224.4	59.527	N-80	
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8	157.1	43.157	MN-80 Hydril SLX	
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4				

Zones / Event Sequence

Zone Name	Zone Code	Current Status

Job Information / AFE

Objective Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.
Target Formation Nahanni

Daily Pressures

Subtype	P (kPa)
SICP	0

Operation Summary

Operations Next Report Period Move to next location PRL 300/F-25/6030-12330/01. Cut and cap
Operation at 6am Wait on daylight.

24 Hr Operational Comments

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:00	6.00	6.00	WOD	PP		Wait on daylight.
06:00	06:15	0.25	6.25	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.
06:15	06:45	0.50	6.75	TTLY	PP		Travel contractors across Ft Laird river via jet boat
06:45	07:15	0.50	7.25	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421
07:15	08:15	1.00	8.25	RIHPOOH	PP		Run in 5 joints of 73 mm J-55 6.99 kg/m tubing. Tag cement top 367 mKB with 1800 daN weight.
08:15	09:00	0.75	9.00	POOH	PP		Pull and lay down 36 joints of 73 mm tubing. Tubing displacement leaves fluid level at 28 mKB.
09:00	10:30	1.50	10.50	BOPS	PP		Rig out 73 mm pipe handling equipment and rig floor. Remove 279.4 mm - 34.5 MPa - Class III BOP .
10:30	12:00	1.50	12.00	NU/ND WH/XT	PP		Install 279.4 mm casing bowl with 279.4 mm x 244.5 mm mastervalve well head. Torque down well head and secure valves with chain / lock.
12:00	19:30	7.50	19.50	RU/RD	PP		Rig out PWS # 830. Load all 2 7/8" tubing and pipe racks. Load and move support equipment...fire suppression trailer, SABA trailer, rig matts / beam. 400 bbl tanks farm, accumulator, rental equipment, garbage skid, toilet trailer, 11" BOP stack, accumulator and generator shack. Prep remaining mobile equipment for travel and stage, ready to move to PRL 300/F-25/6030-12330/01 in the morning.. Clean well head, lease and work areas.
							End of report until cut and cap operations.
19:30	00:00	4.50	24.00	WOD	PP		Wait on cut and cap.

Other In Hole

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent	████	156.0	2,900.00	2,901.00	
Bridge Plug - Permanent	████	230.0	1,287.00	1,287.20	
Fresh Water (Permanent)	███	224.4	28.00	368.00	7/26/2023 09:00

Bill 30 Requirements (Head Count Only)

Type	Count
Day Shift	15



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 7/26/2023

Report #: 8

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008		
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical			
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)		Total Depth (mKB) 4,324.00	PBTD (All) (mKB)			
Contractor Hours (Head Count & Hours)							
Type			Count	Reg Work Time (hr)			
Flare Permit							
Contract # C03040 C	Agreement Start Date 11/25/2020		Agreement End Date				
Flaring Volumes							
Type	Subtype	Des	Amount	Units			
		No Gas Flared					
Report Fluids Summary							
Fluid	Cum to Lease (m³)	Cum fm lease (m³)	Lease Bal (m³)	Cum to Well (m³)	Cum from Well (m³)		
Acid			-1.00	1.00	0.00		
Other	60.00	0.00	60.00				
Water	113.00	112.00	1.00	55.00	55.00		
Weather & Road Condition							
Weather		T (°C)	Road Cond				
Rain		12	Fair				



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 8/7/2023

Report #: 9

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008
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Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical
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KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)
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Casing Strings									
Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)	ID (mm)	Wt/Len (kg/m)	Grade	Top Thread
Conductor	3/25/2004	13.00	7.40	5.60	508.0				
Surface	3/27/2004	383.00	7.40	375.60	339.7	315.3	101.195	K-55	
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5	224.4	59.527	N-80	
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8	157.1	43.157	MN-80 Hydril SLX	
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4				

Zones / Event Sequence									
Zone Name	Zone Code							Current Status	

Job Information / AFE									
Objective									
Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.									
Target Formation Nahanni									

Daily Pressures									
Subtype									P (kPa)
SICP									

Operation Summary									
Operations Next Report Period									
Wait on cut n cap operations									
Operation at 6am									

Wait on daylight									
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24 Hr Operational Comments									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details		
00:00	06:00	6.00	6.00	WOD	PP		Wait on daylight.		
06:00	06:15	0.25	6.25	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.		
06:15	07:00	0.75	7.00	TTLY	PP		Travel contractors across Ft Laird river via jet boat		
07:00	07:30	0.50	7.50	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421		
07:30	17:30	10.00	17.50	Site Cleanup	PP		Clean out floc tank full of past cement water and debris at KM 18 tank farm. Chip apart cement and solids to suck into vac hose. Vac unit full fluids and debris (20 m³)		
17:30	18:30	1.00	18.50	TTLY	PP		Vac unit travel to barge staging area. Vac unit to barge across Ft Laird River on 8-Aug-2023.		
18:30	00:00	5.50	24.00	WOD	PP		End of report for day.		
Wait on daylight.									

Other In Hole									
Des		Icon	OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date
Bridge Plug - Permanent		████	156.0		2,900.00		2,901.00		
Bridge Plug - Permanent		████	230.0		1,287.00		1,287.20		

Bill 30 Requirements (Head Count Only)									
Type									Count
Day Shift									3

Contractor Hours (Head Count & Hours)									
Type									Reg Work Time (hr)

Flare Permit									

Contract # C03040 C	Agreement Start Date 11/25/2020				Agreement End Date				
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Report Fluids Summary									
Fluid	Cum to Lease (m³)	Cum fm lease (m³)	Lease Bal (m³)	Cum to Well (m³)	Cum from Well (m³)	Left to recover (m³)	Cum Non-recov (m³)		
Acid			-1.00	1.00	0.00	1.00			

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Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 8/7/2023

Report #: 9

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008				
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical					
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)						
Report Fluids Summary									
Fluid	Cum to Lease (m ³)	Cum fm lease (m ³)	Lease Bal (m ³)	Cum to Well (m ³)	Cum from Well (m ³)	Left to recover (m ³)	Cum Non-recov (m ³)		
Other	60.00	20.00	40.00						
Water	113.00	112.00	1.00	55.00	55.00	0.00			
Weather & Road Condition									
Weather		T (°C)		Road Cond					
Smoke		12		Fair					



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 8/21/2023

Report #: 10

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008								
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical									
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)										
Casing Strings													
Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)	ID (mm)	Wt/Len (kg/m)	Grade	Top Thread				
Conductor	3/25/2004	13.00	7.40	5.60	508.0								
Surface	3/27/2004	383.00	7.40	375.60	339.7	315.3	101.195	K-55					
Intermediate	3/31/2004	1,509.70	7.40	1,502.30	244.5	224.4	59.527	N-80					
Production	7/22/2004	3,875.00	1,343.30	2,531.70	177.8	157.1	43.157	MN-80 Hydril SLX					
Open Hole	7/22/2004	4,324.00	3,875.00	449.00	152.4								
Zones / Event Sequence													
Zone Name	Zone Code	Current Status											
Job Information / AFE													
Objective Well Abandonment. Program will commence after access and camp are prepared. It is expected that 7 wells will be abandoned and costs will be shared where possible.													
Target Formation Nahanni													
Daily Pressures													
Subtype						P (kPa)							
SICP						0							
Operation Summary													
Operations Next Report Period Excavator to finish slope levelling bell hole													
Operation at 6am Wait on daylight													
24 Hr Operational Comments													
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details						
00:00	12:30	12.50	12.50	WOD	PP		Wait on daylight.						
12:30	12:45	0.25	12.75	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for rig operations. Discuss Injured Worker Transportation Plan and ERP.						
12:45	17:30	4.75	17.50	Cut/Cap	PP		Trackhoe and bear watch on site from previous operations. No visible bubbles around wellhead. Swept area and around wellhead for LEL. None detected. Test Production Casing and Surface Casing for LEL. None detected. Confirm no existence of underground lines near well centre. Track hoe dig bellhole around wellhead to depth of 4.0 m. Ensure proper slopping, stairway exit and spoil pile spacing from bellhole. Cut away 3 m of 508 mm conductor. Cement between conductor and surface casing. Cut window in 339.7 mm Surface Casing and 244.5 mm Production Casing. No surface cement between Surface Casing and Production Casing at surface. Cut 244.5 mm Production Casing 2.9 m (11.9 mKB) and 339.7 mm Surface Casing at 3.0 m (12.0 mKB) depth below surface casing flange. Remove wellhead from bellhole. Stitch (vent) weld 6.3 mm plate on top of Production Casing and Surface Casing. Weld write 2M-25 / 2008 on 244.5 mm Production Casing cap. Back fill and tamp bellhole. Rough level surface ground. Install (orange) Tombstone Surface Marker onto 73 mm pipe. Pipe is anchored and located 1.0 m x North of well centre. Weld write on tombstone marker N 2008 + Paramount Res Ltd + 08/23-2023 + 60°24'52.668" N + 123°35'28.824" W + NAD 83 Rough back fill bell hole. Leave equipment on side of site. End report for day. *** Adjust final costs as received***						
17:30	18:30	1.00	18.50	TTLY	PP		Travel contractor personal across Ft Laird river via jet boat. Weld truck travel across barge to Ft Laird. Travel to base.						



Daily ARO Operations

Well: PARAMOUNT ET AL LIARD 2M-25

Pad: M-26/6030-12330

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 8/21/2023

Report #: 10

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 88.41	License # N2008													
Original KB Elevation (m) 919.00	Ground Elevation (m) 911.60	Casing Flange Elevation (m) 911.60	Tubing Head Elevation (m)	Well Configuration Type Vertical														
KB-Ground Distance (m) 7.40	KB-Tubing Head Distance (m)	Total Depth (mKB) 4,324.00	PBTD (All) (mKB)															
24 Hr Operational Comments																		
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details											
18:30	00:00	5.50	24.00	WOD	PP	Wait on daylight.												
Other In Hole																		
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date													
Bridge Plug - Permanent		156.0	2,900.00	2,901.00														
Bridge Plug - Permanent		230.0	1,287.00	1,287.20														
Bill 30 Requirements (Head Count Only)																		
Type	Count																	
Day Shift																		
Contractor Hours (Head Count & Hours)						Type	Count	Reg Work Time (hr)										
Flare Permit																		
Contract # C03040 C	Agreement Start Date 11/25/2020			Agreement End Date														
Flaring Volumes																		
Type	Subtype	Des	Amount	Units														
		No Gas Flared																
Report Fluids Summary																		
Fluid	Cum to Lease (m³)	Cum fm lease (m³)	Lease Bal (m³)	Cum to Well (m³)	Cum from Well (m³)	Left to recover (m³)	Cum Non-recov (m³)											
Acid			-1.00	1.00	0.00	1.00												
Other	60.00	20.00	40.00															
Water	113.00	112.00	1.00	55.00	55.00	0.00												
Weather & Road Condition																		
Weather			T (°C)	Road Cond														
Partly Cloudy			22	Fair														





Tubing and Rods (Schematic)

Well Name: PARAMOUNT ET AL LIARD 2M-25

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	License # N2008	Field Name Liard	State/Province NorthWest Territories
Well Configuration Type Vertical	Original KB Elevation (m) 919.00	KB-Ground Distance (m) 7.40	KB-Casing Flange Distance (m) 7.40	KB-Tubing Head Distance (m)

Vertical, Original Hole, 8/29/2023 12:51:13 PM																							
Vertical schematic (actual)																							
Tubing - Production set at 3,880.69mKB on 4/12/2011 00:00																							
<table border="1"> <thead> <tr> <th>Des</th> <th>Set Depth (mKB)</th> <th>Run Date</th> <th>Lateral Position</th> <th>Pull Date</th> <th>Cut/Pull Date</th> <th>Depth Cut/Pull (m)</th> </tr> </thead> <tbody> <tr> <td>Tubing - Production</td> <td>3,880.69</td> <td>4/12/2011</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Des	Set Depth (mKB)	Run Date	Lateral Position	Pull Date	Cut/Pull Date	Depth Cut/Pull (m)	Tubing - Production	3,880.69	4/12/2011				
Des	Set Depth (mKB)	Run Date	Lateral Position	Pull Date	Cut/Pull Date	Depth Cut/Pull (m)																	
Tubing - Production	3,880.69	4/12/2011																					
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-1	Tubing	91	876.00	127.0		26.790	Hydril 513	2,941.42	3,817.42														
Comment																							
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-2	Cross Over - Reduce	1	0.42	127.0	114.3			3,817.42	3,817.84														
Comment																							
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-3	114.3mm Casing pup joint	1	2.85	114.3		18.750	L-80	3,817.84	3,820.69														
Comment																							
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-4	Weatherford Ultra Pack c/w 120.65 seal bore	1	1.50	114.3				3,820.69	3,822.19														
Comment																							
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-5	1 Joints of 114.3mm Casing	1	14.00	114.3		18.750	L-80	3,822.19	3,836.19														
Comment																							
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-6	Weatherford Ultra Pack c/w 120.65 seal bore	1	1.50	114.3				3,836.19	3,837.69														
Comment																							
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-7	3 Joints of 114.3mm Casing	3	42.00	114.3		18.750	L-80	3,837.69	3,879.69														
Comment																							
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-8	Profile Nipple	1	0.50	114.3	96.9			3,879.69	3,880.19														
Comment																							
Item #	Item Description	Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)	Btm (mKB)														
1-9	Mule Shoe	1	0.50	114.3				3,880.19	3,880.69														
Comment																							
Other In Hole																							
Description	Bridge Plug - Permanent	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date																	
		156.0	2,900.00	2,901.00																			
Comment																							
Batch mixed 4.5 ton high temp and high pressure cement as per BJ program, 3.41m3. Pumped cement @ .50m3/min, displaced cement with 5.2m3 fresh																							
Description	Bridge Plug - Permanent	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date																	
		230.0	1,287.00	1,287.20																			
Comment																							
Description	Thermal Cement	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date																	
		224.4	1,257.00	1,287.00	7/20/2023 00:00																		
Comment																							



Tubing and Rods (Schematic)

Well Name: PARAMOUNT ET AL LIARD 2M-25

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	License # N2008	Field Name Liard	State/Province NorthWest Territories
Well Configuration Type Vertical	Original KB Elevation (m) 919.00	KB-Ground Distance (m) 7.40	KB-Casing Flange Distance (m) 7.40	KB-Tubing Head Distance (m)

Vertical, Original Hole, 8/29/2023 12:51:14 PM						
Vertical schematic (actual)						
Other In Hole						
Description Cement Retainer (Permanent)		OD (mm) 224.4	Top Depth (mKB) 603.00	Btm (mKB) 604.00	Run Date 7/22/2023 13:00	Mill/Pull Date
Comment Spot Reliance E-line unit. Rig up lubricator and wireline BOP. RIH with CCL / Setting tool and 244 mm cement retainer. Corelate to depth and set retainer 5 mtrs above perforation in the next casing joint above @ 603 mKB. Retreive setting tools to surface. Fill hole with 900 ltrs and pressure test to 7 mPa with rig pump. Test good.						
Description Thermal Cement		OD (mm) 224.4	Top Depth (mKB) 604.00	Btm (mKB) 611.00	Run Date 7/22/2023 13:30	Mill/Pull Date
Comment Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 4 m3 Thermal 40 + 1% calcium x 1800 kg/m3 cement slurry. Slurry Yield 0.870 m3/t. Fluid loss 0.15 %. Thick time 1.5 hrs. Brought on cement pump at 130 ltrs/min x 2.5 MPa. Displacement behind cement slurry is 500 ltrs of fresh (non-saline) water 13°C. Started squeezing 30 ltrs/min at 200 kpa. Built positive pressure till squeeze completion. Final pressure at 3 mPa. Stop pumps and held for 10 min flat line. Squeeze 2.7 m3 cement into perf interval and hold remaining cement in tubing. No signs activity from SCVF						
Description Fresh Water (Permanent)		OD (mm) 224.4	Top Depth (mKB) 611.00	Btm (mKB) 1,257.00	Run Date 7/22/2023 13:31	Mill/Pull Date
Comment Fresh Non-Saline Water						
Description Thermal Cement		OD (mm) 224.4	Top Depth (mKB) 569.00	Btm (mKB) 603.00	Run Date 7/24/2023 08:30	Mill/Pull Date
Comment						
Description Cement Retainer (Permanent)		OD (mm) 224.4	Top Depth (mKB) 402.91	Btm (mKB) 404.00	Run Date 7/24/2023 18:00	Mill/Pull Date
Comment Spot Reliance E-line unit. Rig up lubricator and wireline BOP. RIH with CCL / Setting tool and 244 mm cement retainer. Corelate to depth and set retainer 4 mtrs above perforations @ 403 mKB. Fill hole with 300 ltrs and pressure test to 7 mPa with rig pump. Test good.						
Description Thermal Cement		OD (mm) 224.4	Top Depth (mKB) 404.00	Btm (mKB) 410.00	Run Date 7/25/2023 09:00	Mill/Pull Date
Comment						
Description Thermal Cement		OD (mm) 224.4	Top Depth (mKB) 368.00	Btm (mKB) 402.91	Run Date 7/25/2023 12:30	Mill/Pull Date
Comment						
Description Fresh Water (Permanent)		OD (mm) 224.4	Top Depth (mKB) 410.00	Btm (mKB) 569.00	Run Date 7/25/2023 12:32	Mill/Pull Date
Comment Fresh Non-Saline Water						
Description Fresh Water (Permanent)		OD (mm) 224.4	Top Depth (mKB) 28.00	Btm (mKB) 368.00	Run Date 7/26/2023 09:00	Mill/Pull Date
Comment						
Description Steel Plate		OD (mm) 315.3	Top Depth (mKB) 11.90	Btm (mKB) 12.00	Run Date 8/21/2023 14:00	Mill/Pull Date
Comment Vented Steel Cap						
Description Glacier Tile		OD (mm) 224.5	Top Depth (mKB) 7.20	Btm (mKB) 11.88	Run Date 8/21/2023 14:00	Mill/Pull Date
Comment						



Tubing and Rods (Schematic)

Well Name: PARAMOUNT ET AL LIARD 2M-25

API/UWI 302/M-25/6030-12330/00	Surface Legal Location M-25/6030-12330	License # N2008	Field Name Liard	State/Province NorthWest Territories
Well Configuration Type Vertical	Original KB Elevation (m) 919.00	KB-Ground Distance (m) 7.40	KB-Casing Flange Distance (m) 7.40	KB-Tubing Head Distance (m)

Vertical, Original Hole, 8/29/2023 12:51:15 PM						
Vertical schematic (actual)						
Other In Hole						
Description Glacier Tile		OD (mm) 315.0	Top Depth (mKB) 7.20	Btm (mKB) 11.89	Run Date 8/21/2023 14:00	Mill/Pull Date
Comment						
Description Gravel		OD (mm) 508.0	Top Depth (mKB) 7.20	Btm (mKB) 11.90	Run Date 8/21/2023 14:00	Mill/Pull Date
Comment						
Dropped tubing set at 3,701.30 on <Run Date?>						
String Description Dropped tubing	Run Date		Set Depth (mKB) 3,701.30		Pull Date	
Item Description 73mm L-80 tubing scalped in and chemically cut off		Joints	Length (m) 698.40	OD (mm) 73.0	Wt (kg/m)	Grade
Comment						
Item Description profile nipple		Joints	Length (m) 0.38	OD (mm) 73.0	Wt (kg/m)	Grade
Comment						
Item Description 73mm L-80 tubing pup joint		Joints	Length (m) 1.23	OD (mm) 73.0	Wt (kg/m)	Grade
Comment						
Item Description Pump out disc		Joints	Length (m) 0.30	OD (mm) 73.0	Wt (kg/m)	Grade
Comment						
Item Description Wireline guide		Joints	Length (m) 0.13	OD (mm) 73.0	Wt (kg/m)	Grade
Comment						
Perforation Statuses						
Top (mKB) 407.00	Top (TVD) (mKB) 406.90	Btm (mKB) 409.00	Btm (TVD) (mKB) 408.90	Date 8/24/2023	Status Squeezed	
608.00	605.27	610.00	607.20	8/21/2023	Squeezed	
Cement Stages						
Type	Subtype	String	Des	End Date	Top (mKB)	Btm (mKB)
Plug		Intermediate, 1,509.70mKB	Cement Plug		1,236.00	1,335.00
Plug		Production, 3,875.00mKB	Cement Plug		2,800.00	2,900.00
Plug		Original Hole	Abandon	7/23/2023	569.00	603.00
Plug		Original Hole	Abandon	7/25/2023	367.00	403.00