

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

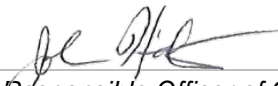
Effective Date: August 21, 2023

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	 Responsible Officer of Company	Date	August 29, 2023

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 (m³)
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 3.3m ³ cement, cement plug from 367.0 - 403.0 with 1.3m ³ 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 certify that the information provided on this form is true and correct"

Name	John Hawkins, P.Eng.	Phone	(403) 817 - 5074
Title	Director Asset Management	E-Mail	john.hawkins@paramountres.com
Operator	Paramount Resources Ltd.		
Signature	 Responsible Officer of Company	Date	August 29, 2023



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
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 CAODC 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

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: -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 perms 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 tbq and pump last 100 ltrs acid into perms. 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.</p> <p>-Precision rig #830 crew travels to Fort St John for crew change.</p> <p>-End report for day.</p>
7/23/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary: - 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 release 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 tbq. -Secure well, equipment and site. Clean work areas and SDFN.</p> <p>-End report for day.</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
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 jnts. 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 x127 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 x18.2 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 perms. 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. Correlate 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/ft. 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. 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: - Clean out flocc tank full of past cement water and debris. Chip apart cement to solids to suck into hose. Vac unit full fluids and debris (20 m³) - Vac unit travel to barge staging area. Vac unit to barge across Ft Liard River on 8-Aug-2023. - End of report for day.</p>
8/21/2023	<p>HSE Summary: No incident, accidents, or spills.</p> <p>Operations Summary: - 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***</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	
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	
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 CAODC 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 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. End report for day.
19:30	00:00	4.50	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	1,257.00	1,287.20	7/20/2023 00:00



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: 7/19/2023
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)	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 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	TTLTY	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 flocc 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	
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	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.

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	Reg Work Time (hr)

Flare Permit

Contract # C03040 C	Agreement Start Date 11/25/2020	Agreement End Date
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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	4.00	109.00	55.00	55.00	0.00	


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: 7/21/2023
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)						
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 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	TTLTY	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	
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 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	TTLTY	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 bttom 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. 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.				
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)	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	67.00	46.00	55.00	55.00	0.00					
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)	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 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	TTLTY	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	
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)					

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 (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
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)	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.									
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 x127 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 injectivty 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 x18.2 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 bttom 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 for100 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	
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
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)	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 Tag cement top. TOOH lay out tbgr. 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	TTLTY	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 tubng bottom just above retainer and tie in service rig pump to 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 tbgr.

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 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.
15:00	15:30	0.50	15.50	Circulating	PP		Rig in circulation lines. Reverse circulate 2 m³ 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 m³ 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 (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	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	TTLTY	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 mastervalue 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.				
19:30	00:00	4.50	24.00	WOD	PP		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)	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	112.00	1.00	55.00	55.00	0.00					
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	
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											
Operation Summary											
Operations Next Report Period Wait on cut n cap operations											
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	07:00	0.75	7.00	TTLTY	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	TTLTY	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						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)	Left to recover (m³)	Cum Non-recov (m³)				
Acid			-1.00	1.00	0.00	1.00					



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: 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 (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	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 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. *** 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		PBSD (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						5					
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)

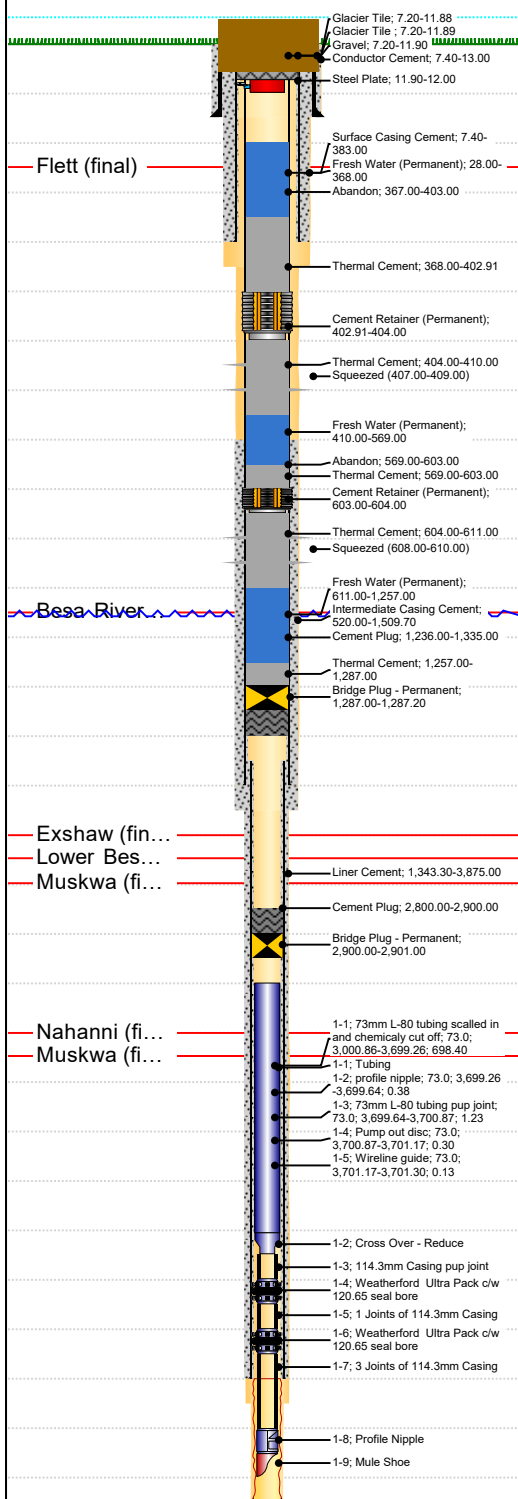
Paramount
resources ltd.

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

Des Tubing - Production		Set Depth (mKB) 3,880.69	Run Date 4/12/2011	Lateral Position		Pull Date	Cut/Pull Date		Depth Cut/Pull (...)
Item # 1-1	Item Description Tubing	Joints 91	Length (m) 876.00	OD (mm) 127.0	ID (mm)	Wt (kg/m) 26.790	Grade Hydril 513	Top (mKB) 2,941.42	Btm (mKB) 3,817.42
Comment									
Item # 1-2	Item Description Cross Over - Reduce	Joints 1	Length (m) 0.42	OD (mm) 127.0	ID (mm) 114.3	Wt (kg/m)	Grade	Top (mKB) 3,817.42	Btm (mKB) 3,817.84
Comment									
Item # 1-3	Item Description 114.3mm Casing pup joint	Joints 1	Length (m) 2.85	OD (mm) 114.3	ID (mm)	Wt (kg/m) 18.750	Grade L-80	Top (mKB) 3,817.84	Btm (mKB) 3,820.69
Comment									
Item # 1-4	Item Description Weatherford Ultra Pack c/w 120.65 seal bore	Joints 1	Length (m) 1.50	OD (mm) 114.3	ID (mm)	Wt (kg/m)	Grade	Top (mKB) 3,820.69	Btm (mKB) 3,822.19
Comment									
Item # 1-5	Item Description 1 Joints of 114.3mm Casing	Joints 1	Length (m) 14.00	OD (mm) 114.3	ID (mm)	Wt (kg/m) 18.750	Grade L-80	Top (mKB) 3,822.19	Btm (mKB) 3,836.19
Comment									
Item # 1-6	Item Description Weatherford Ultra Pack c/w 120.65 seal bore	Joints 1	Length (m) 1.50	OD (mm) 114.3	ID (mm)	Wt (kg/m)	Grade	Top (mKB) 3,836.19	Btm (mKB) 3,837.69
Comment									
Item # 1-7	Item Description 3 Joints of 114.3mm Casing	Joints 3	Length (m) 42.00	OD (mm) 114.3	ID (mm)	Wt (kg/m) 18.750	Grade L-80	Top (mKB) 3,837.69	Btm (mKB) 3,879.69
Comment									
Item # 1-8	Item Description Profile Nipple	Joints 1	Length (m) 0.50	OD (mm) 114.3	ID (mm) 96.9	Wt (kg/m)	Grade	Top (mKB) 3,879.69	Btm (mKB) 3,880.19
Comment									
Item # 1-9	Item Description Mule Shoe	Joints 1	Length (m) 0.50	OD (mm) 114.3	ID (mm)	Wt (kg/m)	Grade	Top (mKB) 3,880.19	Btm (mKB) 3,880.69
Comment									

Other In Hole

Description		OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date
Bridge Plug - Permanent		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		OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date
Bridge Plug - Permanent		230.0	1,287.00	1,287.20		
Comment						
Description		OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date
Thermal Cement		224.4	1,257.00	1,287.00	7/20/2023 00:00	
Comment						



Tubing and Rods (Schematic)

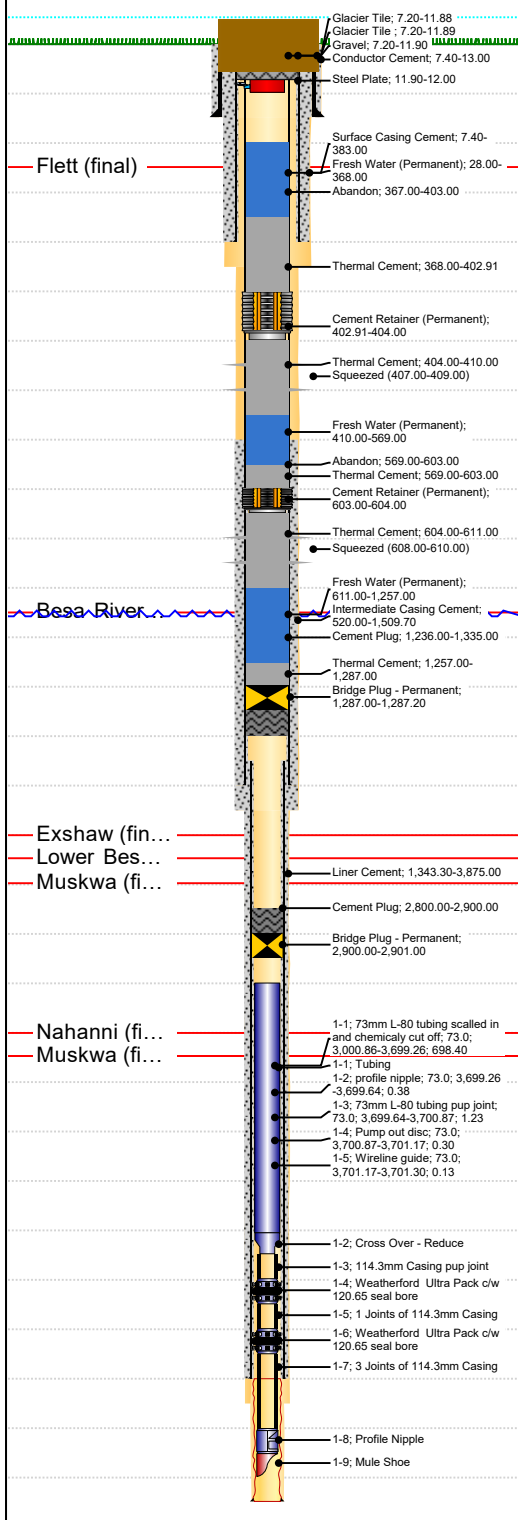
Paramount
resources ltd.

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		OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date
Cement Retainer (Permanent)		224.4	603.00	604.00	7/22/2023 13:00	
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. Retrieve setting tools to surface. Fill hole with 900 ltrs and pressure test to 7 mPa with rig pump. Test good.						
Thermal Cement		224.4	604.00	611.00	7/22/2023 13:30	
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						
Fresh Water (Permanent)		224.4	611.00	1,257.00	7/22/2023 13:31	
Comment Fresh Non-Saline Water						
Thermal Cement		224.4	569.00	603.00	7/24/2023 08:30	
Comment						
Cement Retainer (Permanent)		224.4	402.91	404.00	7/24/2023 18:00	
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.						
Thermal Cement		224.4	404.00	410.00	7/25/2023 09:00	
Comment						
Thermal Cement		224.4	368.00	402.91	7/25/2023 12:30	
Comment						
Fresh Water (Permanent)		224.4	410.00	569.00	7/25/2023 12:32	
Comment Fresh Non-Saline Water						
Fresh Water (Permanent)		224.4	28.00	368.00	7/26/2023 09:00	
Comment Fresh Non-Saline Water						
Steel Plate		315.3	11.90	12.00	8/21/2023 14:00	
Comment Vented Steel Cap						
Glacier Tile		224.5	7.20	11.88	8/21/2023 14:00	
Comment						



Tubing and Rods (Schematic)

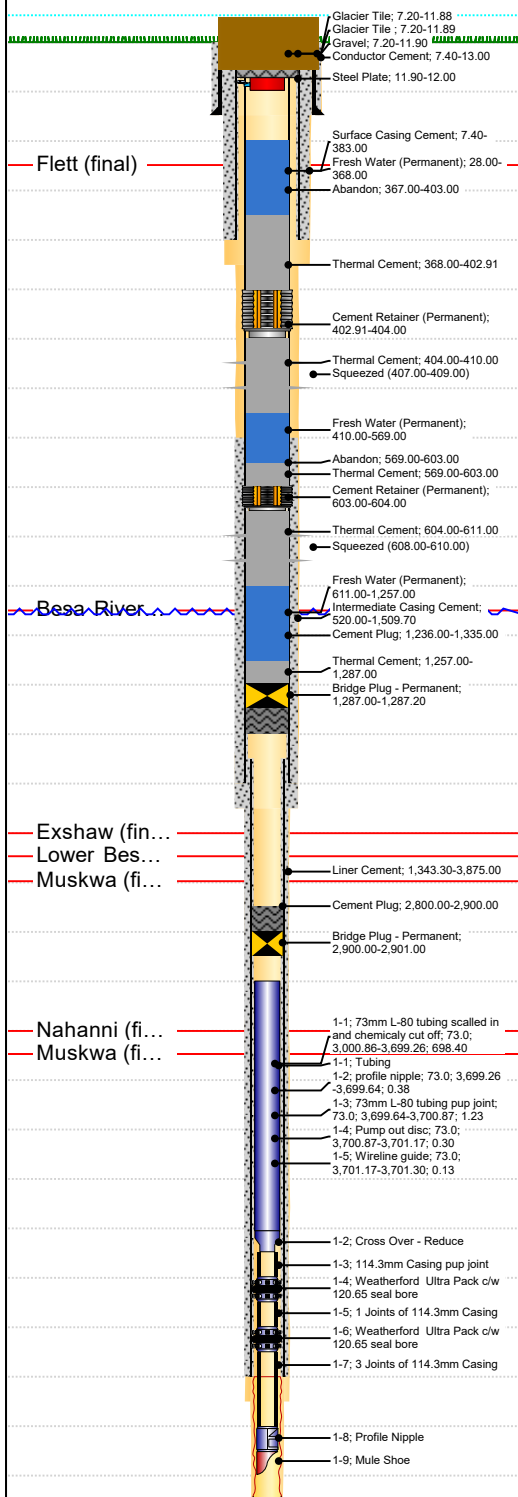
Paramount
resources ltd.

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	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date
Glacier Tile	315.0	7.20	11.89	8/21/2023 14:00	

Comment

Description	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	Mill/Pull Date
Gravel	508.0	7.20	11.90	8/21/2023 14:00	

Comment

Dropped tubing set at 3,701.30 on <Run Date>

String Description	Run Date	Set Depth (mKB)	Pull Date
Dropped tubing		3,701.30	

Item Description	Length (m)	OD (mm)	Wt (kg/m)	Grade
73mm L-80 tubing scaled in and chemically cut off	698.40	73.0		

Comment

Item Description	Length (m)	OD (mm)	Wt (kg/m)	Grade
profile nipple	0.38	73.0		

Comment

Item Description	Length (m)	OD (mm)	Wt (kg/m)	Grade
73mm L-80 tubing pup joint	1.23	73.0		

Comment

Item Description	Length (m)	OD (mm)	Wt (kg/m)	Grade
Pump out disc	0.30	73.0		

Comment

Item Description	Length (m)	OD (mm)	Wt (kg/m)	Grade
Wireline guide	0.13	73.0		

Comment

Perforation Statuses

Top (mKB)	Top (TVD) (mKB)	Btm (mKB)	Btm (TVD) (mKB)	Date	Status
407.00	406.90	409.00	408.90	8/24/2023	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