

August 28, 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, ACW-2022-PAR-F-25A-WID1621**

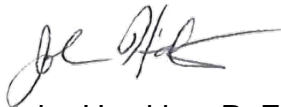
Please find attached for submission the required documents for Well Termination (Abandonment) of the 300/F-25/6030-12330/01 well, Licence # 1621

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](mailto: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](http://www.orogo.gov.nt.ca).

### WELL INFORMATION

Well Name	PARAMOUNT ET AL LIARD F-25A	Operator	Paramount Resources Ltd.
Well Identifier (WID)	1621	Unique Well Identifier (30xx...)	300/F-25/6030-12330/01

### STATUS INFORMATION

Effective Date: August 25, 2023

Well Type: Producer

If other, specify:

Well Mode: Abandoned

If other, specify:

Other:

If other, specify:

Fluid Production: (choose all applicable)

Not applicable	<input type="checkbox"/>	Steam	<input type="checkbox"/>
Crude Oil	<input type="checkbox"/>	Air	<input type="checkbox"/>
Gas	<input checked="" 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 Ext 5074

Title Director Asset Management

E-Mail [john.hawkins@paramountres.com](mailto:john.hawkins@paramountres.com)

Operator Paramount Resources Ltd.

Signature

  
Responsible Officer of Company

Date

August 28, 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](mailto: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](http://www.orogo.gov.nt.ca).

**WELL INFORMATION**

Well Name	PARAMOUNT ET AL LIARD F-25A	Operator	Paramount Resources Ltd.
Well Type	Exploratory Well (if Other, specify _____)	Contractor	Precision Well Servicing
Well Identifier	1621	Current Well Status	Abandoned

**RELATED LICENCES AND AUTHORIZATIONS**

Operating Licence No.	NWT-OL-2014-014	Operations Authorization	OA -
PRA Licence No.	Exploration Licence NWT-OL-2014-014	Approval to Alter Condition of Well	ACW - 2022- PAR-F-25A- WID1621

**LOCATION INFORMATION**
**Coordinates**      Datum: NAD83 (if Other, please specify \_\_\_\_\_)

<i>Surface</i>	Lat 60 ° 24 ' 22 "	Long 123 ° 35 ' 7 "
<i>Bottom Hole</i>	Lat 60 ° 24 ' 22 "	Long 123 ° 35 ' 7 "

Region:   Select      Unit      Section      Grid      -      -

**ACTIVITY INFORMATION**

Target Formation(s)	Nahanni	Field/Pool(s)	Liard / West
Elevation KB/RT	723.0 m	Ground Level / Seafloor	716.6 m
Service Rig Start Date	June 21, 2023	Total Depth	3479.0 m KB
Service Rig Release Date	August 6, 2023	Total Vertical Depth	3479.0 m KB

**CASING AND CEMENTING PROGRAM**

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing (m <sup>3</sup> )
455.0	91.0	K-55	766.4	60.0 tonnes
311.0	244.5	L-80	3178.0	37.0 tonnes

**PLUGGING PROGRAM**

Type of Plug	Interval (m KB)	Felt	Setting Depth (m KB)	Cementing (m <sup>3</sup> )
Bridge	-	Select	3176.0	9.1
Select	-	Select		
Select	-	Select		
Select	-	Select		

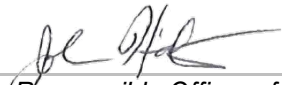
**PERFORATION**

Interval (m KB)	Comments
-	
-	
-	
-	

**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	Well was zonally abandoned in July/Aug 2023
Additional Comments	

***"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	 <i>Responsible Officer of Company</i>	Date	August 28, 2023



## ARO Daily Op Summary

**Well Name: PARAMOUNT ET AL LIARD F-25A**

Well Header					
API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	License # N1621	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	KB-Ground Distance (m) 6.40	KB-Casing Flange Distance (m) 6.40	Spud Date 1/25/1986	Rig Release Date 2/25/1987

### Daily Operations

Start Date	Summary
6/21/2023	<p>HSE Summary: No incident, accident or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> <li>- Inspect and review travel operations across Ft Laird River.</li> <li>- Travel to site. Review removal of surface piping and supports. Area cleared for coil and rig operations.</li> <li>- Able to function (2) Abb Vetco Gray Master Valve 79.3 mm x 34.5 MPa. Shut in tubing and casing pressure both at 0 KPa.</li> <li>- Perform SCVF Bubble test. No bubbles observed in 15 minutes.</li> <li>- Arrange contractors and equipment for operations.</li> <li>- End operations for day.</li> </ul>
6/27/2023	<p>HSE Summary: No incident, accident or spills. Qwest # QW421</p> <p>Operations Summary</p> <ul style="list-style-type: none"> <li>- Tow tractor assist all equipment up to location.</li> <li>- Spot and rig in 60.3 mm - 0.190" Coil unit, 60 m³ test unit, 45 tonne picker, matting, fire suppression unit, (1) 63 m³ test tank, 16 m flare, debris catcher, SABA, filter unit, enviro unit, safety equipment on site as per industry, OROGO, PRL and contractor rules and regulations. Perform on going inspection of equipment as rig in.</li> <li>- Shut In tubing pressure 0 KPa. Shut In casing pressure 0 KPa. Capillary line 50 KPa. Bleed off trapped capillary line pressure.</li> <li>- Stump function Quad 69 MPa Coil BOP. Start pressure 19305 KPa. Function test Quad BOP. Close blind rams 17 sec. Close top pipe ram 15 sec. Close lower pipe ram 15 sec. End pressure 15400 KPa. Recharge system 18 sec.</li> <li>- Stump pressure test Quad Coil 69 MPa BOP upper 60.3 mm pipe, lower 60.3 mm pipe, blind rams, and slips to 1.4 MPa (low) and 35 MPa (high).</li> <li>- Remove Upper 179 mm x 79.3 mm adapter flange and 79.3 mm x 34.5 MPa Dual Master Valve wellhead assembly. Observe upper threads in tubing hanger are heavily corroded.</li> <li>- Install 1794 mm x 34.5 MPa Master Valve. Install 179.4 mm x 34.5 MPa x 130.1 mm x 69 MPa adapter spool. Install 69 MPa work spool and (prior pressure test and charted) Quad 69 MPa - 130 mm Coil BOP.</li> <li>- Pressure test surface lines, wellhead connection and PBP at 57 mKB to 1.4 MPa (low) and 21 MPa (high).</li> <li>- Secure wellhead and equipment for night.</li> <li>- All personal cross river via jet boat.</li> <li>- End report for day.</li> </ul>
6/28/2023	<p>HSE Summary: No incident, accident or spills. Qwest # QW421</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> <li>- Pull test internal dimple connector on GT-90 x 4.83 mm - 5.81 mm x 810 m of 60.3 mm coil. Max pull 45,000 daN. Max weight -8000 daN. Volume 1.8 m³. pull test to 7,000 daN and 21,000 daN. OK.</li> <li>- Pressure test coil connector 1.4 MPa (low) and 35 MPa (high). Held.</li> <li>- Makeup inside lubricator 71 mm 3 Blade Junk Mill on 54 mm Motor BHA</li> <li>- Install 130 mm lubricator BOP. Pressure test bowen connections to 1.4 MPa (low) and 28 MPa (high). Held 10 min each.</li> <li>- Open master valve. Issues getting 71 mm BHA into extended neck. Break apart bowen connection. Manually orientate 71 mm BHA into 88.9 mm tubing</li> <li>- Makeup bowen connection. Pressure test bowen connection 21 MPa. held 10 min.</li> <li>- Held BOP drill. Review drill operations.</li> <li>- Run 60.3 mm coil and 71 mm 3 Blade Mill. Function motor 20 mKB. Rate 100 L/min x 7 MPa. Rate 180 L/m x 8 MPa.</li> <li>- Run in and tag PBP at 57.1 mKB. Start mill 12:00 hrs. Rate 240 L/min x 10.0 MPa. RPM 525. Weight on mill 3000 daN. No signs H2S. Recover small metal and rubber debris. Mill thru PBP 15:27 hrs. Work mill from 57 - 60 mKB multiple times to ensure clear.</li> <li>- Run 60.3 mm coil with 71mm 3 Blade Mill to 150 mKB while continue to circulate 200 L /m x fresh water. No signs H2S, oil, gas or fluid loss.</li> <li>- Pull coil with 71 mm Mill BHA to surface. Lay Down milling BHA. Inspection show mill is worn but in fair condition</li> <li>- Pressure test 88.9 mm tubing 8.1 MPa. Held 10 minutes. No leak</li> <li>- Close 179.4 mm master valve. Close blind rams on Quad BOP. Secure wellhead.</li> <li>- Start rig down and prepare for travel coil unit, pump unit, test unit, flare, filter station, SABA trailer and combo enviro unit.</li> <li>- End report for day.</li> </ul>



## ARO Daily Op Summary

**Well Name: PARAMOUNT ET AL LIARD F-25A**

Well Header					
API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	License # N1621	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	KB-Ground Distance (m) 6.40	KB-Casing Flange Distance (m) 6.40	Spud Date 1/25/1986	Rig Release Date 2/25/1987

### Daily Operations

Start Date	Summary
6/29/2023	<p><b>HSE Summary:</b> No incident, accident or spills. Qwest # QW421</p> <p><b>Operations Summary:</b>            - Remove 179.4 mm x 34.5 MPa x 130.1 mm x 69 MPa adapter spool and Class III - Quad 69 MPa - 130 mm Coil BOP.            - Install Upper 179 mm x 79.3 mm adapter flange and 79.3 mm x 34.5 MPa Dual Master Valve wellhead assembly on top of 179.4 mm x 34.5 MPa Master Valve.            - Complete rig down of coil unit, pump unit, test unit, flare, filter station, SABA trailer and combo enviro unit.            - Clean and secure wellhead and site.            - All fluids and equipment to be sent to PRL 300/M-25-6030-12330.            - End report for day.</p>
7/27/2023	<p><b>HSE Summary:</b> No incidents, accidents or spills.</p> <p><b>Operations Summary:</b>            -Dense fog conditions. Unable to safely transport people across Liard River on jet boat until visibility Improves. On standby monitoring.            -Fog lifts.Travel contractors across Ft Laird river via jet boat            -Move service rig, pump truck and dog house from PRL 302/M-25/6030-12330/00. Use Cooper trucking tow tractor for each piece to come down steep grade. Spot and rig up PWS # 830, Fire Suppression unit, hydraulic catwalk, pipe racks, SABA unit, H2S scrubber, and support equipment on site as per industry, government, contractor and PRL spacing rules and regulations. Perform ongoing CAODC inspection.            -Run remote accumulator lines to Class III BOP. Function BOP's. Start 21 MPa. Close blind 5 sec. Close pipe rams 6 sec. Close annular 25 secs. Final pressure 11500 kPa. Recharge 180 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 162 mm x 177 mm - 34.5 MPa Master Valve. Remove 177 mm x 34.5 mPa orbit valve (Great North rental).            -Attempt to install landing pup joint with 3" acme lift threads x 3 1/2" EUE x-over. With 88.9 mm stabbing valve. Will not thread into tubing hanger. Clean hanger threads and inspect. Do not have thread compatible x-over on location. X-over is on nearby site available for morning operations. Install 177 mm - 34.5 MPa - Class III BOP,            -Pressure test B.O.P wellhead connection to 7 mPa. Tests good.             -Secure wellhead, location and equipment. Clean work areas and SDFN.             - End report for day.</p>
7/28/2023	<p><b>HSE Summary:</b> No incidents, accidents or spills.</p> <p><b>Operations Summary:</b>            -Check SCIP and SITP. Both sides neutral. Remove 177 mm - 34.5 MPa - Class III BOP,            -Dan's Fishing tool hand brings assortment of x-overs to site. Attempt to match x-overs with (3" acme lift threads) in tubing hanger. Do not have compatible thread in tool hands local supply. Order possible thread matches and hot shot via Fort St John.            -Install 177 mm x 34.5 mPa orbit valve (Great North rental). Lower rig floor and install handling equipment.            -Spot Reliance E-line / Slick line unit. Rig up lubricator and wireline BOP. Rig in 177 mm wire line flange. Install wire line wellhead equipment. RIH with CCL / 52 mm tool string with spangs, jars and 65 mm gauge ring. Tag @ 330 mKB. Pull out of hole and inspect. Run 55.8 mm magnet to 370 mKB pull out of hole and inspect, Wax, sediment and fine filings built up on magnet. Run 55.8 mm gauge ring and tag 938 mKB. Work several times with no gain. Inspect tool at surface. Serrated and folded edges on gauge ring imply hard contact ( metal or scale). Run 45.7 mm gauge ring and tag same @ 938 mKB. Run with wax knife to see if can penetrate center of blockage with 30 mm tip. Hard tag @ 938 mKB.Retrieve tools to surface. Wax knife is bent from impact. Rig down wire line equipment and 177 mm wireline flange. Release Slickline / E-line unit.            -Rig down rig floor and remove 177 mm x 34.5 mPa orbit valve (Great North rental).            -Install 177 mm - 34.5 MPa - Class III BOP            -Pressure test B.O.P wellhead connection to 7 mPa. Tests good.            -Make up 75 mm spear grapple assembly on a 3 mtr 88.9 mm landing pup joint with an open 88.9 mm stabbing valve installed and attempt to lower into tubing hanger and engage latch. Try multiple time to lower and engage tool. Grapple on spear is to large to fit ID of tubing. Lay out 88.9 mm spear landing assembly.            -Secure wellhead, location and equipment. Clean work areas and SDFN.             - End report for day.</p>

## ARO Daily Op Summary

**Well Name: PARAMOUNT ET AL LIARD F-25A**

Well Header					
API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	License # N1621	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	KB-Ground Distance (m) 6.40	KB-Casing Flange Distance (m) 6.40	Spud Date 1/25/1986	Rig Release Date 2/25/1987

### Daily Operations

Start Date	Summary
7/29/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> <li>- Short wait for fog at boat launch. Can transport personnel on jet boat safely at 06:45 hrs.</li> <li>-Check SCIP below tubing hanger and SITP. Both sides neutral. Unlock and open B.O.P pipe rams.</li> <li>-Make up 73 mm spear grapple assembly on a 3 mtr 88.9 mm landing pup joint with a closed 88.9 mm stabbing valve installed and attempt to lower into tubing hanger, Engage spear grapple. Back out tubing hanger lag screws, Latch on elevators and pick up to packer on / off neutral at 3181 mKB. String weight is 36000 daN. Appears to have 5000 daN compression on packer. Work left hand torque down hole in neutral a few times. pick up in 5000 daN stages to 47000 daN. On / off releases. Pull out of hole. Unclamp and remove section of 3/8" continuous capillary string. Lay out landing pup / with spear assembly, 177.8 mm 3.5" vam x 3.75" Nu Vam tubing hanger and 1 joint of 88.9 mm, 13.67 kg/m, L-80 Nu Vam tubing. Lay out 3.2 mtr 88.9 mm pup joint and tubing is full of fluid. Install stabbing valve and lower tubing string to working height.</li> <li>-Spot Reliance E-line / Slick line unit. Rig up lubricator and wireline BOP. make up 7.14 mm braided e-line cable head and 43 mm tool string. RIH with CCL / 43 mm weight bar and 42 mm Tubing strip 9 shot, 3 gram pef gun. RIH to depth of 910 mKB. Perforate 88.9 mm tubing @ 13:15 hrs and retrieve spent gun to surface. Rig down wire line equipment. Release Slickline / E-line unit.</li> <li>-Rig in pump lines. Reverse circulate 18 m3 of fresh water to rig tank at 500 ltrs / min x 1 mPa. Clean up tubing. No LEL's. No H2S. Rig down pump lines.</li> <li>-Begin to TOOH with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove capillary string in 10 mtr sections with clamps. Lay out a total of 58 joints of 88.9 mm tubing and 2.46 mtr pup joint.</li> <li>-Secure wellhead, location and equipment. Clean work areas and SDFN.</li> <li>- End report for day.</li> </ul>
7/30/2023	<p>HSE Summary: No incidents, accidents or spills.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> <li>-Check SICP and SITP. Both sides neutral. Unlock and open B.O.P pipe rams.</li> <li>-Continue to TOOH with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove capillary string in 10 mtr sections with clamps. Lay out 40 more joints of 88.9 mm tubing (98 total). Install 88.9 mm mud can and lay out 5 more wet joints. No obstruction found at 931 mKB. There is 103 joints out of the hole tallied at a length of 948.63 mtrs. Joints are in good condition and drift to optimum gauge.</li> <li>Spot Reliance E-line / Slick line unit. Rig up lubricator and wireline BOP. Make up 7.14 mm braided e-line cable head and 43 mm tool string. RIH with CCL / 43 mm weight bar and 56 mm gauge ring. Tag at 875 mKB. Attempt to push obstruction down hole. Solid tag. Retrieve tools to surface. Edges of gauge ring are curled and serrated. Make up 42 mm Tubing strip 5 shot, 3 gram pef gun. RIH to depth of 875 mKB. Tag obstruction and pick up 1 mtrs Perforate 88.9 mm tubing @ 873 mKB. RIH to 910 mKB and tag obstruction there. Retrieve spent gun to surface. Rig down wire line equipment.</li> <li>-Rig in pump lines. Reverse circulate 4 m3 of fresh water to rig tank at 500 ltrs / min x 1 mPa. Clean up tubing. No LEL's. No H2S. Rig down pump lines.</li> <li>-Continue to TOOH with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove capillary string in 10 mtr sections with clamps. Lay out 95 more joints of 88.9 mm tubing. Install 88.9 mm mud can and lay out 5 more wet joints. No obstruction found at 910 mKB point. There is 203 joints out of the hole tallied at a length of 1869.47 mtrs. Joints are in good condition and drift to optimum gauge.</li> <li>-Secure wellhead, location and equipment. Clean work areas and SDFN.</li> <li>- End report for day.</li> </ul>





## ARO Daily Op Summary

**Well Name: PARAMOUNT ET AL LIARD F-25A**

Well Header					
API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	License # N1621	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	KB-Ground Distance (m) 6.40	KB-Casing Flange Distance (m) 6.40	Spud Date 1/25/1986	Rig Release Date 2/25/1987

### Daily Operations

Start Date	Summary
7/31/2023	<p><b>HSE Summary:</b> -No incidents, accidents or spills.</p> <p><b>Operations Summary:</b> -Rig in Reliance E-line / Slick line unit. Rig up lubricator and wireline BOP. Purge and pressure test lubricator to 1.4 mPa low, 14 mPa high with N2. Purge lubricator with N2 every run. Make up 7.14 mm braided e-line cable head and 43 mm tool string. RIH with CCL / 43 mm weight bar and 56 mm gauge ring. Tag at 33 mKB. Attempt to push obstruction down hole. Solid tag. Retrieve tools to surface. Lay out wire line equipment. -Pull wet 4 joints. Find obstruction in joint # 208. Consist of permanent bridge plug body, bull nose, retainers, portion of element and slip dies. -Rig up lubricator and wireline BOP. RIH with CCL / 43 mm weight bar and 56 mm gauge ring. Tag at 738 mKB. Attempt to push obstruction down hole. RIH with 56 mm magnet to same depth. Retrieve to surface. No material. -Make up 42 mm Tubing strip 5 shot, 3 gram pef gun. RIH to depth of 738 mKB. Tag obstruction and pick up 1 mtrs. Attempt to perforate. Gun miss fires. -Retrieve live gun to surface. Disarm and make up second 42 mm Tubing strip 5 shot, 3 gram perf gun on new cable head and CCL. RIH to depth of 738 mKB. Tag obstruction and pick up 1 mtrs. Perforate 88.9 mm tubing @ 736 mKB. RIH to 738 mKB. Obstruction still there. Retrieve to surface. Rig down wire line equipment. -Reverse circulate 4 m3 of fresh water -Continue TOOH with 88.9 mm tubing and capillary string. Remove capillary string in 10 mtr sections with clamps. Lay out 78 more joints of 88.9 mm tubing till perforations. Install mud can and break out next connection. Cement in joint. Total of 285 joints of hole. Turn quarter turn next connection and see gas leak. Clear floor. Hot tap in tubing joint #266. Pressure is 8944 kpa. Bled off in 30 seconds. LEL readings with no H2S. Pump forward and reverse circ. Slight bleed off both ways. Lay out tapped joint. -Secure wellhead, location and equipment. Clean work areas and SDFN. -End report for day.</p>
8/1/2023	<p><b>HSE Summary:</b> -No incidents, accidents or spills.</p> <p><b>Operations Summary:</b> -Continue to TOOH with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove capillary string in 10 mtr sections with clamps. Lay out 5 joints of 88.9 mm tubing is wet with emulsified, charged fluid. Install mud can and break out next 4 joints. -Rig in pump lines. Attempt to forward circulate. Pressure up to 10 mPa. No leak off. Bleed off fast. Repeated this process 4 times. Break reverse circulation. Pump 6 m3 fresh water. See heavy scale debris returns. Pump till returns clean. rig down pump line. -Continue to TOOH with 88.9 mm tubing string. Removing capillary string in 10 mtr sections with clamps. Lay out 11 joints. Tubing is full of fluid. Break out 1 wet joint with mudcan. -Rig in pump lines. Reverse circulate 6 m3 of fresh water to rig tank at 1 m3 / min x 1 mPa. Bring back 20 ltrs plus of scale debris. Clean up tubing. Rig down pump lines. -Continue to TOOH with 88.9 mm tubing string. Removing capillary string in 10 mtr sections with clamps. Retrieve BHA to surface. Configuration as follows; 1.85 mtr pup, Injection sub, 2.89 mtr pup, "X" nipple, 2.89 mtr pup and on/off skirt. A total of 343 tubing joints and a 2.46 mtr pup at surface were laid out as well. -Inspectors from the OROGO and AER arrive on location. Carry out B.O.P functions, drill, engine kills, equipment and personell certification checks. As well as general lease and operations inspection. -Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 179.4 mm DSA. Install wire line wellhead equipment. Pressure test /purge with N2. RIH with 146 mm CCL/ gauge ring / junk basket to 3178.9 mKB. Retrieve tools to surface and inspect. Pieces of tubing permanent bridge plug in basket. Lay out wireline equipment.  -Secure wellhead, location and equipment. Clean work areas and SDFN.  -End report for day.</p>



## ARO Daily Op Summary

**Well Name: PARAMOUNT ET AL LIARD F-25A**

Well Header					
API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	License # N1621	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	KB-Ground Distance (m) 6.40	KB-Casing Flange Distance (m) 6.40	Spud Date 1/25/1986	Rig Release Date 2/25/1987

### Daily Operations

Start Date	Summary
8/2/2023	<p><b>HSE Summary:</b> --No incidents, accidents or spills.</p> <p><b>Operations Summary</b> -Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in 179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. Makeup and run in CCL / Setting Tool &amp; Weatherford 144.5 mm x DB-8K Permanent Bridge Plug with Viton Elements. Tag top of on/off @ 3178.9 mKB. Pull up and set Bridge Plug at 3176 mKB x 10:39 hrs. Pull out hole with setting tool. -Tie in rig pump. Takes 1.3 m3 of fresh water to fill casing. Pressure up to 7 mPa and hold for 10 mins. Test good. -RIH with CCL / RBL tool string. Perform high speed pass to top of bridge plug @ 3176 mKB. Correlate to depth. Log from 3175 mKB to 1275 mKB. Lose DC current to tool string. POOH and inspect tools @ 14:50 hrs. -Wireline crew drives to 18 km stage area to look for service parts. Trouble shoot wireline truck instrumentation. Re-tie cable head. Test line. -RIH with CCL / RBL tool string to 50 mtrs below last pulled bond log at 1325 mKB. Overlap and complete log to surface. Lay down and rig out wire line. -Secure well, equipment and site. Clean work areas and SDFN. Travel to base.</p> <p>- End report for day.</p>
8/3/2023	<p><b>HSE Summary:</b> -No incidents, accidents or spills.</p> <p><b>Operations Summary</b> -Load pipe racks. Talley drift and run in hole with 238 joints of 73 mm 9.67 kg/m J-55 tubing. Install 4 ft pup joint for a marker and carry on with 95 joints of 73 mm 9.67 kg/m L-80 tubing (total of 333 joints). Tag top of bridge plug at 3176 mKB. Pick up .5 of a mtr. Install buried 2.95 mtr pup joint for accessible working height with tubing bottom at 3175.5 mKB. -Rig in circulation lines. Reverse circulate 60 m3 fresh water at 700 ltr/min x 6.5 MPa. Returns show 0 ppm salinity and are clean. Rig down circulation lines. -Rig in cement unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1 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 9.1 m3 fresh (non-saline) water 13°C. Circulated and balance cement plug from 3175.5 mKB to 3125.5 mKB (50 mtrs). No signs activity from SCVF. Rig down pump line. -Pull slowly and lay down 8 joints 73 mm tubing. Position tubing bottom 3100 mKB. -Rig in circulation lines. Reverse circulate 18 m3 fresh water at 700 L/min x 5 MPa. Returns are clean, fresh (non-saline) water. Send 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 hauls 3 m3 water to flocc tank at KM 18 tank farm. -Lay out 2 more joints. Place tubing bottom at 3081.1 mKB.</p> <p>-Secure well, equipment and site. Clean work areas and SDFN. Travel to base.</p> <p>- End report for day.</p>
8/4/2023	<p><b>HSE Summary:</b> --No incidents, accidents or spills.</p> <p><b>Operations Summary</b> -Pick up and RIH with 5 joints of 73 mm tubing. Tag cement top @ 3128 mKB (47 mtrs of linear cement to bridge plug). Set down 1800 daN string weight. -Trip out of hole and lay down 89 joints of 73 mm 9.67 kg/m L-80 tubing. Secure well.</p> <p>*Wait for approval to continue operations from OROGO.</p> <p>-Removal 4 ft pup joint for marker and carry on laying out 238 joints of 73 mm 9.67 kg/m J-55 tubing (total of 333 joints). *Stage 73 mm J-55 rental string (241 joints) and 73 mm L-80 (173 joints)...A total of 414 joints on rental pipe racks off to side of location. -Rig in pump line. Fill well bore with 2.2 m3. Leave fluid level 30 mtrs below surface. -Rig down 73 mm pipe handling equipment and lift rig floor. Remove B.O.P. -Rig out PWS # 830. Rig out test vessel and flare stack. Rig out and stage 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 mobile equipment for travel. Stage testing and rental equipment ready to mobilize in the morning.. Clean well head, lease and work areas. Secure wellhead. Lock well head with chain and pad lock.</p> <p>-Secure well, equipment and site. Clean work areas and SDFN. Travel to base.</p> <p>- End report for day.</p>



## ARO Daily Op Summary

**Well Name: PARAMOUNT ET AL LIARD F-25A**

Well Header					
API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	License # N1621	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	KB-Ground Distance (m) 6.40	KB-Casing Flange Distance (m) 6.40	Spud Date 1/25/1986	Rig Release Date 2/25/1987










### Daily Operations

Start Date	Summary
8/5/2023	<p>HSE Summary: --No incidents, accidents or spills.</p> <p>Operations Summary: -Complete final rig out of PWS # 830 mobile equipment. Tow each piece out of access road with tow tractor and barge to Laird village side of river. Load rig onto wheeler and begin rig move back to Ft. St John. Stage remaining testing and rental equipment ready to mobilize in the morning. Clean and secure lease.</p> <p>- Clean well lease and work areas. SDFN. Travel to base.</p> <p>- End report for day.</p>
8/6/2023	<p>HSE Summary: --No incidents, accidents or spills.</p> <p>Operations Summary: -Travel contractors across Ft Laird river via jet boat. Barge 6 trucks (Garry Wilson) across. Trucks arrive on site @ 09:00 hrs. -Load test vessel, flare stack, catwalk (c/w pipe racks), fire suppression skid, scrubber, 7 1/16" rental orbit valve, 400 bbl tanks x 4, garbage skid, 3 1/2 pipe handling equipment and rental accumulator power plant. Load 414 joints of 73 mm tubing (173 L-80 + 241 J-55) and pipe racks. Transfer 11" B.O.P stack and accumulator to K-29 site.Tow Each load with tractor for steep grade. Barge each load across river.Release all equipment to their bases.</p> <p>Clean location and secure.</p> <p>End of report.</p> <p>***NOTE Costs will be adjusted as final invoices are received.</p>
8/7/2023	Travel 800 km for well site supervisor from Ft Liard Camp to home baes in Grande Prairie.
8/25/2023	<p>HSE Summary: No incident, accidents, or spills.</p> <p>Operations Summary: - Load and travel track hoe to site. - 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 2 m of 720 / 660 mm conductor. Cement between (2) conductor and surface casing. Cut window in 508 mm Surface Casing, 339.7 mm Intermediate Casing, Tie Back Casing. - Surface cement between Surface Casing and Intermediate Casing. No cement between Intermidate Casing and Tie Back Casing at surface. Cut 177.8 mm Tie Back Casing, 2.9 m (9.40 mKB), 339.7 mm Intermediate Casing 3.0 m ( 9.45 mKB), 508 mm Surface Casing at 3.1 m (9.46 mKB) depth delow surface casing flange. - Remove wellhead from bellhole. Stitch (vent) weld 6.3 mm plate on top of Intermediate Casing, Production Casing and Surface Casing. Weld write F-25 / N1621 on 177.8 mm Tie Back Casing cap. - Back fill and tamp bellhole. Level and slop bell hole. - 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 1621 + Paramount Res Ltd + 60°24'22.5" N + 123°35'7.984" W + NAD 83 - Move equipment for operations on 300/K-29-6030-12330 - Job completed.</p>

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Rigless**

**Report Date: 6/21/2023**  
**Report #: 1**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
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	1/25/1986	10.00	6.40	3.60	660.0		11.000				
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40			
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C		
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C		
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C		
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C		
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3						
Zones / Event Sequence											
Zone Name				Zone Code				Current Status			
Nahanni				/02							
Job Information / AFE											
Objective Well Abandonment. OROGO Level II Well abandonment.											
Target Formation Nahanni											
Daily Pressures											
Subtype					P (kPa)						
SICP					0						
SITP					0						
Operation Summary											
Operations Next Report Period Wait for coil 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	09:00	9.00	9.00	No Job Activity	PP		No activity on site.				
09:00	11:30	2.50	11.50	RU/RD	PP		Inspect and review travel operations across Ft Laird River.				
							Travel to site. Review removal of surface piping and supports. Area cleared for coil and rig operations.				
							Able to function (2) Abb Vetco Gray Master Valve 79.3 mm x 34.5 MPa. Shut in tubing and casing pressure both at 0 KPa.				
							Perform SCVF Bubble test. No bubbles observed in 15 minutes.				
							Arrange contractors and equipment for operations.				
							End operations for day.				
11:30	00:00	12.50	24.00	WOD	PP		Wait on daylight.				
Other In Hole											
Des					Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date		
											
Bridge Plug - Permanent						161.8	3,176.00	3,177.00	8/2/2023 10:30		
Thermal Cement						161.8	3,128.00	3,176.00	8/3/2023 12:00		
Fresh Water (Permanent)						161.8	30.00	3,128.00	8/3/2023 12:01		
Steel Plate						508.0	9.50	9.55	8/25/2023 11:00		
Glacier Tile						660.0	6.40	9.50	8/25/2023 11:00		
Glacier Tile						508.0	6.40	9.46	8/25/2023 11:00		
Gravel						177.8	6.40	9.40	8/25/2023 11:00		
Gravel						339.7	6.40	9.45	8/25/2023 11:00		
Other In Hole - Pulled											
Des			OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date			Pull Reason		
Bridge Plug - Permanent			157.2	2,911.00	2,912.00	8/1/2023			Pulled for suspension/ abandonment.		



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Rigless**

**Report Date: 6/21/2023**  
**Report #: 1**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>Other In Hole - Pulled</b>											
Des		OD (mm)		Top Depth (mKB)		Btm (mKB)		Mill/Pull Date		Pull Reason	
Bridge Plug - Permanent		161.8		57.00		58.00		6/28/2023		Pulled for suspension/ abandonment.	
<b>Bill 30 Requirements (Head Count Only)</b>											
Type						Count					
Day Shift						1					
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type						Count		Reg Work Time (hr)			
<b>Flare Permit</b>											
Contract # C03040 B				Agreement Start Date 1/31/2020				Agreement End Date			
<b>Flaring Volumes</b>											
Type		Subtype		Des		Amount		Units			
				No Gas Flared							
<b>Weather &amp; Road Condition</b>											
Weather				T (°C)				Road Cond			
Overcast				22				Good			

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Rigless**

**Report Date: 6/27/2023**  
**Report #: 2**

API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 64.81	License # N1621					
Original KB Elevation (m) 723.00	Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	Tubing Head Elevation (m) 718.60	Well Configuration Type Deviated						
KB-Ground Distance (m) 6.40	KB-Tubing Head Distance (m) 4.40	Total Depth (mKB) 3,478.00	PBTD (All) (mKB) Original Hole - 3,304.00							
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	1/25/1986	10.00	6.40	3.60	660.0		11.000			
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40		
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C	
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C	
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C	
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C	
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3					
Zones / Event Sequence										
Zone Name		Zone Code				Current Status				
Nahanni		/02								
Job Information / AFE										
Objective Well Abandonment. OROGO Level II Well abandonment.										
Target Formation Nahanni										
Daily Pressures										
Subtype						P (kPa)				
SICP						0				
SITP						0				
Operation Summary										
Operations Next Report Period Mill out 88.9 mm PBP at 57 mKB.										
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	06:30	6.50	6.50	WOD	PP		Wait on daylight.			
06:30	06:45	0.25	6.75	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.			
06:45	07:15	0.50	7.25	TTLY	PP		All personal cross river via jet boat. Travel to site.			
07:15	07:30	0.25	7.50	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for setup of coil operaitons. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421			
07:30	12:00	4.50	12.00	Rig Mob	PP		Tow tractor assist all equipment travelling up to site.			
12:00	15:00	3.00	15.00	RU/RD	PP		Spot and rig in 60.3 mm - 0.190" Coil unit, 60 m³ test unit, 45 tonne picker, matting, fire suppression unit, (1) 63 m³ test tank, 16 m flare, debris catcher, SABA, filter unit, enviro unit, safety equipment on site as per industry, OROGO, PRL and contractor rules and regulations.  Shut In tubing pressure 0 KPa. Shut In casing pressure 0 KPa. Capillary line 50 KPa. Bleed off trapped pressure from capillary line.  Install 71 mm external dimple coil connector on GT-90 x 4.83 mm - 5.81 mm x 814 m of 60.3 mm coil.			
15:00	16:30	1.50	16.50	BOPS	PP		Stump function Quad 69 MPa Coil BOP. Start pressure 19305 KPa. Function test Quad BOP. Close blind rams 17 sec. Close top pipe ram 15 sec. Close lower pipe ram 15 sec. End pressure 15400 KPa. Recharge system 18 sec.  Stump pressure test Quad Coil 69 MPa BOP upper 60.3 mm pipe, lower 60.3 mm pipe, blind rams, and slips to 1.4 MPa (low) and 35 Mpa (high).			
16:30	17:30	1.00	17.50	NU/ND WH/XT	PP		Remove Upper 179 mm x 79.3 mm adapter flange and 79.3 mm x 34.5 MPa Dual Master Valve wellhead assembly.  Observe upper threads in tubing hanger are heavily corroded.			
17:30	18:30	1.00	18.50	BOPS	PP		Install 1794 mm x 34.5 MPa Master Valve. Install 179.4 mm x 34.5 MPa x 130.1 mm x 69 MPa adapter spool. Install 69 MPa work spool and (prior pressure test and charted) Quad 69 MPa - 130 mm Coil BOP.			



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Rigless**

**Report Date: 6/27/2023**  
**Report #: 2**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>24 Hr Operational Comments</b>											
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details				
18:30	19:00	0.50	19.00	PRESS	PP		Pressure test surface lines, wellhead connection and PBP at 57 mKB to 1.4 MPa (low) and 21 MPa (high). Held 10 minutes each.				
19:00	20:00	1.00	20.00	TTLY	PP		Secure wellhead and equipment for night.  All personal cross river via jet boat.  End report for day.				
20:00	00:00	4.00	24.00	WOD	PP		Wait on daylight.				
<b>6:00 Update</b>											
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details					
00:00	06:30	6.50		PP		Wait on daylight.					
<b>Other In Hole</b>											
Des		Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date					
Bridge Plug - Permanent			161.8	3,176.00	3,177.00	8/2/2023 10:30					
Thermal Cement			161.8	3,128.00	3,176.00	8/3/2023 12:00					
Fresh Water (Permanent)			161.8	30.00	3,128.00	8/3/2023 12:01					
Steel Plate			508.0	9.50	9.55	8/25/2023 11:00					
Glacier Tile			660.0	6.40	9.50	8/25/2023 11:00					
Glacier Tile			508.0	6.40	9.46	8/25/2023 11:00					
Gravel			177.8	6.40	9.40	8/25/2023 11:00					
Gravel			339.7	6.40	9.45	8/25/2023 11:00					
<b>Other In Hole - Pulled</b>											
Des		OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date	Pull Reason					
Bridge Plug - Permanent		157.2	2,911.00	2,912.00	8/1/2023	Pulled for suspension/ abandonment.					
Bridge Plug - Permanent		161.8	57.00	58.00	6/28/2023	Pulled for suspension/ abandonment.					
<b>Bill 30 Requirements (Head Count Only)</b>											
Type					Count						
Day Shift					20						
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type					Count		Reg Work Time (hr)				
<b>Flare Permit</b>											
Contract # C03040 B			Agreement Start Date 1/31/2020			Agreement End Date					
<b>Flaring Volumes</b>											
Type		Subtype		Des		Amount		Units			
				No Gas Flared							
<b>Report Fluids Summary</b>											
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	45.00		45.00								
<b>Weather &amp; Road Condition</b>											
Weather			T (°C)			Road Cond					
Partly Cloudy			28			Good					

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Rigless**

**Report Date: 6/28/2023**  
**Report #: 3**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621									
Original KB Elevation (m) 723.00			Ground Elevation (m) 716.60			Casing Flange Elevation (m) 716.60			Tubing Head Elevation (m) 718.60			Well Configuration Type Deviated							
KB-Ground Distance (m) 6.40				KB-Tubing Head Distance (m) 4.40				Total Depth (mKB) 3,478.00				PBTD (All) (mKB) Original Hole - 3,304.00							
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		1/25/1986		10.00		6.40		3.60		660.0				11.000					
Surface		1/31/1986		196.45		6.40		190.05		508.0				139.900		H-40			
Inter 1		8/5/1986		766.40		6.40		760.00		339.7		318.0		90.778		K-55		ST&C	
Inter 2		8/30/1986		3,178.00		6.40		3,171.60		244.5		222.5		64.735		L-80		LT&C	
Tie-Back		8/30/1986		3,165.00		6.40		3,158.60		177.8		157.2		43.157		L-80		LT&C	
Liner		2/25/1987		3,477.00		3,165.00		312.00		177.8		159.5		38.692		L-80		LT&C	
Open Hole		2/25/1987		3,478.00		3,477.00		1.00		222.3									
Zones / Event Sequence																			
Zone Name				Zone Code						Current Status									
Nahanni				/02															
Job Information / AFE																			
Objective Well Abandonment. OROGO Level II Well abandonment.																			
Target Formation Nahanni																			
Daily Pressures																			
Subtype								P (kPa)											
SICP								0											
SITP								0											
Operation Summary																			
Operations Next Report Period Complete rig down of coil, fluid pumper, rentals, and test equipment. Wellbore wait on service rig 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	06:30	6.50	6.50	WOD	PP		Wait on daylight.												
06:30	06:45	0.25	6.75	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.												
06:45	07:15	0.50	7.25	TTLY	PP		All personal cross river via jet boat. Travel to site.												
07:15	07:30	0.25	7.50	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for setup of coil operaitons. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421												
07:30	08:30	1.00	8.50	RU/RD	PP		Remove injector from saddle. Install 3 Joints 130 mm x 34.5 MPa lubricator.  Pull test internal dimple connector on GT-90 x 4.83 mm - 5.81 mm x 810 m of 60.3 mm coil. Max pull 45,000 daN. Max weight -8000 daN. Volume 1.8 m³. pull test to 7,000 daN and 21,000 daN. OK.												
08:30	09:30	1.00	9.50	PRESS	PP		Pressure test coil connector 1.4 MPa (low) and 35 MPa (high). Held.  Install 130 mm lubricator BOP. Pressure test bowen connections to 1.4 MPa (low) and 28 MPa (high). Held 10 min each.												
09:30	09:45	0.25	9.75	RU/RD	PP		Makeup inside lubricator: (1) 71 mm x 3 Blade Junk Mill x 0.29 m (1) Motor 5/6 - 4.7 x 54 mm x 2.81 m (1) Circ Sub, 54 mm x 0.25 m 1) Hydraulic Disconnect, 54 mm x 0.44 (1) Dual Flapper Check Valve, 54 mm x 0.45 m (1) Internal Dimple Connector, 59 mm x 0.08 m												
09:45	10:00	0.25	10.00	PRESS	PP		Install 130 mm lubricator BOP. Pressure test bowen connections to 1.4 MPa (low) and 28 MPa (high). Held 10 min each.												
10:00	11:00	1.00	11.00	RU/RD	PP		Open master valve. Issues getting 71 mm BHA into extended neck. Break apart bowen connection. Manually orientate 71 mm BHA into 88.9 mm tubing. Makeup bowem connection												
11:00	11:15	0.25	11.25	PRESS	PP		Pressure test bowen connection 21 MPa. held 10 min.												
11:15	11:30	0.25	11.50	Safety Mtg	PP		Held BOP drill. Review drill operations.												





## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Rigless**

**Report Date: 6/28/2023**  
**Report #: 3**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					

**24 Hr Operational Comments**

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
11:30	16:45	5.25	16.75	Milling	PP		Run 60.3 mm coil and 71 mm 3 Blade Mill. Function motor at 20 mKB. Rate 100 L/min x 7 MPa. Rate 180 L/m x 8 MPa.  Run in and tag PBP at 57.1 mKB. Start mill 12:00 hrs. Rate 240 L/min x 10.0 MPa. RPM 525. Weight on mill 3000 daN. No signs H2S. Recover small metal and rubber debris. Mill thru PBP 15:27 hrs. Work mill from 57 - 60 mKB multiple times to ensure clear.  Run 60.3 mm coil with 71mm x 3 Blade Mill to 150 mKB while continue to circulate 200 L /m x fresh water. No signs H2S, oil, gas or fluid loss.  Pull coil with 71 mm Mill BHA to surface. Lay Down milling BHA. Inspection show mill is worn but in fair condition
16:45	17:00	0.25	17.00	PRESS	PP		Pressure test 88.9 mm tubing 8.1 MPa. Held 10 minutes. No leak
17:00	18:00	1.00	18.00	RU/RD	PP		Close blind ram on Quad Coil BOP.  Rig down 71 mm x 3 Blade Mill and motor BHA.  Start rig down and prepare for travel coil unit, pump unit, test unit, flare, filter station, SABA trailer and combo enviro unit.
18:00	18:30	0.50	18.50	TTLY	PP		Secure wellhead and equipment for night.  All personal cross river via jet boat.  End report for day.
18:30	00:00	5.50	24.00	WODR	PP		Wait on daylight.

**6:00 Update**

Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	06:30	6.50		PP		Wait on daylight.

**Other In Hole**

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent		161.8	3,176.00	3,177.00	8/2/2023 10:30
Thermal Cement		161.8	3,128.00	3,176.00	8/3/2023 12:00
Fresh Water (Permanent)		161.8	30.00	3,128.00	8/3/2023 12:01
Steel Plate		508.0	9.50	9.55	8/25/2023 11:00
Glacier Tile		660.0	6.40	9.50	8/25/2023 11:00
Glacier Tile		508.0	6.40	9.46	8/25/2023 11:00
Gravel		177.8	6.40	9.40	8/25/2023 11:00
Gravel		339.7	6.40	9.45	8/25/2023 11:00

**Other In Hole - Pulled**

Des	OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date	Pull Reason
Bridge Plug - Permanent	157.2	2,911.00	2,912.00	8/1/2023	Pulled for suspension/ abandonment.
Bridge Plug - Permanent	161.8	57.00	58.00	6/28/2023	Pulled for suspension/ abandonment.

**Bill 30 Requirements (Head Count Only)**

Type	Count
Day Shift	20

**Contractor Hours (Head Count & Hours)**

Type	Count	Reg Work Time (hr)

**Flare Permit**

Contract # C03040 B	Agreement Start Date 1/31/2020	Agreement End Date
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**Flaring Volumes**

Type	Subtype	Des	Amount	Units
		No Gas Flared		



## Daily ARO Operations

Well: PARAMOUNT ET AL LIARD F-25A  
Pad: E-25/6030-12330  
Business Unit: Central and Other  
Rig: Rigless

Report Date: 6/28/2023  
Report #: 3

API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 64.81	License # N1621
Original KB Elevation (m) 723.00	Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	Tubing Head Elevation (m) 718.60	Well Configuration Type Deviated	
KB-Ground Distance (m) 6.40	KB-Tubing Head Distance (m) 4.40	Total Depth (mKB) 3,478.00	PBTD (All) (mKB) Original Hole - 3,304.00		

### 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	45.00	45.00	0.00				






### Weather & Road Condition

Weather	T (°C)	Road Cond
Partly Cloudy	28	Good

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Rigless**

**Report Date: 6/29/2023**  
**Report #: 4**

API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 64.81	License # N1621				
Original KB Elevation (m) 723.00	Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	Tubing Head Elevation (m) 718.60	Well Configuration Type Deviated					
KB-Ground Distance (m) 6.40	KB-Tubing Head Distance (m) 4.40	Total Depth (mKB) 3,478.00	PBTD (All) (mKB) Original Hole - 3,304.00						
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	1/25/1986	10.00	6.40	3.60	660.0		11.000		
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40	
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3				
Zones / Event Sequence									
Zone Name		Zone Code			Current Status				
Nahanni		/02							
Job Information / AFE									
Objective Well Abandonment. OROGO Level II Well abandonment.									
Target Formation Nahanni									
Daily Pressures									
Subtype				P (kPa)					
SICP				0					
SITP				0					
Operation Summary									
Operations Next Report Period Waiting on service rig operations.									
Operation at 6am Waiting on daylight.									
24 Hr Operational Comments									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details		
00:00	06:30	6.50	6.50	WOD	PP		Wait on daylight.		
06:30	06:45	0.25	6.75	Safety Mtg	PP		Held safety and operational meeting. Discuss water way transportation hazards and controls. Ensure all contractor wearing life vest.		
06:45	07:15	0.50	7.25	TTLY	PP		All personal cross river via jet boat. Travel to site.		
07:15	07:30	0.25	7.50	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operations and hazards for setup of coil operaitons. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421		
07:30	08:00	0.50	8.00	BOPS	PP		Remove 179.4 mm x 34.5 MPa x 130.1 mm x 69 MPa adapter spool and Class III - Quad 69 MPa - 130 mm Coil BOP.		
08:00	08:30	0.50	8.50	NU/ND WH/XT	PP		Install Upper 179 mm x 79.3 mm adapter flange and 79.3 mm x 34.5 MPa Dual Master Valve wellhead assembly on top of 179.4 mm x 34.5 MPa Master Valve.		
08:30	09:00	0.50	9.00	RU/RD	PP		Complete rig down of coil unit, pump unit, test unit, flare, filter station, SABA trailer and combo enviro unit.  Clean and secure wellhead and site.  All fluids and equipment to be sent to PRL 300/M-25-6030-12330.  End report for day.		
09:00	23:30	14.50	23.50	WOD	PP		Wait on daylight.		
Other In Hole									
Des		Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date			
Bridge Plug - Permanent			161.8	3,176.00	3,177.00	8/2/2023 10:30			
Thermal Cement			161.8	3,128.00	3,176.00	8/3/2023 12:00			
Fresh Water (Permanent)			161.8	30.00	3,128.00	8/3/2023 12:01			
Steel Plate			508.0	9.50	9.55	8/25/2023 11:00			
Glacier Tile			660.0	6.40	9.50	8/25/2023 11:00			
Glacier Tile			508.0	6.40	9.46	8/25/2023 11:00			



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Rigless**

**Report Date: 6/29/2023**  
**Report #: 4**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>Other In Hole</b>											
Des			Icon	OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date	
Gravel			■	177.8		6.40		9.40		8/25/2023 11:00	
Gravel			■	339.7		6.40		9.45		8/25/2023 11:00	
<b>Other In Hole - Pulled</b>											
Des			OD (mm)	Top Depth (mKB)		Btm (mKB)		Mill/Pull Date		Pull Reason	
Bridge Plug - Permanent			157.2	2,911.00		2,912.00		8/1/2023		Pulled for suspension/ abandonment.	
<b>Bill 30 Requirements (Head Count Only)</b>											
Type						Count					
Day Shift						20					
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type						Count		Reg Work Time (hr)			
<b>Flare Permit</b>											
Contract # C03040 B				Agreement Start Date 1/31/2020				Agreement End Date			
<b>Flaring Volumes</b>											
Type		Subtype		Des		Amount			Units		
				No Gas Flared							
<b>Report Fluids Summary</b>											
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	45.00	90.00	-45.00								
<b>Weather &amp; Road Condition</b>											
Weather				T (°C)		Road Cond					
Rain				22		Good					



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/27/2023**  
**Report #: 5**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					

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	1/25/1986	10.00	6.40	3.60	660.0		11.000		
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40	
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status
Nahanni	/02	

Job Information / AFE	
Objective	Well Abandonment. OROGO Level II Well abandonment.
Target Formation	Nahanni

Daily Pressures	
Subtype	P (kPa)
SICP	8
SITP	0

Operation Summary	
Operations Next Report Period	Wireline gauge ring 88.9 mm tubing.
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	TTLTY	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 up, testing and tubing operations. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421
10:30	16:00	5.50	16.00	RU/RD	PP		Move service rig, pump truck and dog house from PRL 302/M-25/6030-12330/00. Use Cooper trucking tow tractor for each piece to come down steep grade. Spot and rig up PWS # 830, Fire Suppression unit, hydraulic catwalk, pipe racks, SABA unit, H2S scrubber, and support equipment on site as per industry, government, contractor and PRL spacing rules and regulations. Perform ongoing CAODC inspection.
16:00	17:00	1.00	17.00	BOPS	PP		Run remote accumulator lines to Class III BOP. Function BOP's. Start 21 MPa. Close blind 5 sec. Close pipe rams 6 sec. Close annular 25 secs. Final pressure 11500 kPa. Recharge 180 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.
17:00	17:30	0.50	17.50	NU/ND WH/XT	PP		Remove 162 mm x 177 mm - 34.5 MPa Master Valve. Remove 177 mm x 34.5 mPa orbit valve (Great North rental).
17:30	18:30	1.00	18.50	BOPS	PP		Attempt to install landing pup joint with 3" acme lift threads x 3 1/2" EUE x-over. With 88.9 mm stabbing valve. Will not thread into tubing hanger. Clean hanger threads and inspect. Do not have thread compatible x-over on location. X-over is on nearby site available for morning operations. Install 177 mm - 34.5 MPa - Class III BOP,
18:30	19:30	1.00	19.50	PRESS	PP		Pressure test B.O.P wellhead connection to 7 mPa. Tests good.
19:30	20:00	0.50	20.00	SDFN	PP		Secure wellhead, location and equipment. Clean work areas and SDFN.
							End report for day.
20:00	00:00	4.00	24.00	WOD	PP		Wait on daylight



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/27/2023**  
**Report #: 5**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>6:00 Update</b>											
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details					
00:00	06:00	6.00		PP		Wait on daylight.					
<b>Other In Hole</b>											
Des			Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
Bridge Plug - Permanent				161.8	3,176.00	3,177.00	8/2/2023 10:30				
Thermal Cement				161.8	3,128.00	3,176.00	8/3/2023 12:00				
Fresh Water (Permanent)				161.8	30.00	3,128.00	8/3/2023 12:01				
Steel Plate				508.0	9.50	9.55	8/25/2023 11:00				
Glacier Tile				660.0	6.40	9.50	8/25/2023 11:00				
Glacier Tile				508.0	6.40	9.46	8/25/2023 11:00				
Gravel				177.8	6.40	9.40	8/25/2023 11:00				
Gravel				339.7	6.40	9.45	8/25/2023 11:00				
<b>Other In Hole - Pulled</b>											
Des			OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date	Pull Reason				
Bridge Plug - Permanent			157.2	2,911.00	2,912.00	8/1/2023	Pulled for suspension/ abandonment.				
<b>Bill 30 Requirements (Head Count Only)</b>											
Type						Count					
Day Shift						21					
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type						Count	Reg Work Time (hr)				
<b>Flare Permit</b>											
Contract # C03040 B				Agreement Start Date 1/31/2020				Agreement End Date			
<b>Flaring Volumes</b>											
Type	Subtype	Des			Amount			Units			
		No Gas Flared									
<b>Report Fluids Summary</b>											
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	134.00	90.00	44.00								
<b>Weather &amp; Road Condition</b>											
Weather				T (°C)		Road Cond					
Clear				24		Fair					

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/28/2023**  
**Report #: 6**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621									
Original KB Elevation (m) 723.00			Ground Elevation (m) 716.60			Casing Flange Elevation (m) 716.60			Tubing Head Elevation (m) 718.60			Well Configuration Type Deviated							
KB-Ground Distance (m) 6.40				KB-Tubing Head Distance (m) 4.40				Total Depth (mKB) 3,478.00			PBTD (All) (mKB) Original Hole - 3,304.00								
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		1/25/1986		10.00		6.40		3.60		660.0				11.000					
Surface		1/31/1986		196.45		6.40		190.05		508.0				139.900		H-40			
Inter 1		8/5/1986		766.40		6.40		760.00		339.7		318.0		90.778		K-55		ST&C	
Inter 2		8/30/1986		3,178.00		6.40		3,171.60		244.5		222.5		64.735		L-80		LT&C	
Tie-Back		8/30/1986		3,165.00		6.40		3,158.60		177.8		157.2		43.157		L-80		LT&C	
Liner		2/25/1987		3,477.00		3,165.00		312.00		177.8		159.5		38.692		L-80		LT&C	
Open Hole		2/25/1987		3,478.00		3,477.00		1.00		222.3									
Zones / Event Sequence																			
Zone Name				Zone Code						Current Status									
Nahanni				/02															
Job Information / AFE																			
Objective Well Abandonment. OROGO Level II Well abandonment.																			
Target Formation Nahanni																			
Daily Pressures																			
Subtype								P (kPa)											
SICP								0											
SITP								0											
Operation Summary																			
Operations Next Report Period Attempt to come off packer on/off with 88.9 mm tubing.																			
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 operation hazards. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421												
07:00	08:00	1.00	8.00	BOPS	PP		Check SCIP and SITP. Both sides neutral. Remove 177 mm - 34.5 MPa - Class III BOP,												
08:00	09:00	1.00	9.00	RU/RD	PP		Dan's Fishing tool hand brings assortment of x-overs to site. Attempt to match x-overs with (3" acme lift threads) in tubing hanger. Do not have compatible thread in tool hands local supply. Order possible thread matches and hot shot via Fort St John.												
09:00	10:00	1.00	10.00	NU/ND WH/XT	PP		Install 177 mm x 34.5 mPa orbit valve (Great North rental). Lower rig floor and install handling equipment.												
10:00	14:30	4.50	14.50	ELECL	PP		Spot Reliance E-line / Slick line unit. Rig up lubricator and wireline BOP. Rig in 177 mm wire line flange. Install wire line wellhead equipment. RIH with CCL / 52 mm tool string with spangs, jars and 65 mm gauge ring. Tag @ 330 mKB. Pull out of hole and inspect. Run 55.8 mm magnet to 370 mKB pull out of hole and inspect, Wax, sediment and fine filings built up on magnet. Run 55.8 mm gauge ring and tag 938 mKB. Work several times with no gain. Inspect tool at surface. Serrated and folded edges on gauge ring imply hard contact (metal or scale). Run 45.7 mm gauge ring and tag same @ 938 mKB. Run with wax knife to see if can penetrate center of blockage with 30 mm tip. Hard tag @ 938 mKB.Retrieve tools to surface. Wax knife is bent from impact. Rig down wire line equipment and 177 mm wireline flange. Release Slickline / E-line unit.												
14:30	15:00	0.50	15.00	NU/ND WH/XT	PP		Rig down rig floor and remove 177 mm x 34.5 mPa orbit valve (Great North rental).												
15:00	16:00	1.00	16.00	BOPS	PP		Install 177 mm - 34.5 MPa - Class III BOP,												
16:00	16:30	0.50	16.50	PRESS	PP		Pressure test B.O.P wellhead connection to 7 mPa. Tests good.												
16:30	17:30	1.00	17.50	RU/RD	PP		Make up 75 mm spear grapple assembly on a 3 mtr 88.9 mm landing pup joint with an open 88.9 mm stabbing valve installed and attempt to lower into tubing hanger and engage latch. Try multiple time to lower and engage tool. Grapple on spear is too large to fit ID of tubing. Lay out 88.9 mm spear landing assembly.												





## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/28/2023**  
**Report #: 6**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>24 Hr Operational Comments</b>											
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details				
17:30	18:00	0.50	18.00	SDFN	PP		Secure wellhead, location and equipment. Clean work areas and SDFN.				
							End report for day.				
18:00	00:00	6.00	24.00	WOD	PP		Wait on daylight				
<b>6:00 Update</b>											
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details					
00:00	06:00	6.00		PP		Wait on daylight.					
<b>Other In Hole</b>											
Des		Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date					
Bridge Plug - Permanent			161.8	3,176.00	3,177.00	8/2/2023 10:30					
Thermal Cement			161.8	3,128.00	3,176.00	8/3/2023 12:00					
Fresh Water (Permanent)			161.8	30.00	3,128.00	8/3/2023 12:01					
Steel Plate			508.0	9.50	9.55	8/25/2023 11:00					
Glacier Tile			660.0	6.40	9.50	8/25/2023 11:00					
Glacier Tile			508.0	6.40	9.46	8/25/2023 11:00					
Gravel			177.8	6.40	9.40	8/25/2023 11:00					
Gravel			339.7	6.40	9.45	8/25/2023 11:00					
<b>Other In Hole - Pulled</b>											
Des		OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date	Pull Reason					
Bridge Plug - Permanent		157.2	2,911.00	2,912.00	8/1/2023	Pulled for suspension/ abandonment.					
<b>Bill 30 Requirements (Head Count Only)</b>											
Type					Count						
Day Shift					21						
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type					Count		Reg Work Time (hr)				
<b>Flare Permit</b>											
Contract # C03040 B			Agreement Start Date 1/31/2020			Agreement End Date					
<b>Flaring Volumes</b>											
Type	Subtype	Des		Amount		Units					
		No Gas Flared									
<b>Report Fluids Summary</b>											
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	134.00	90.00	44.00								
<b>Weather &amp; Road Condition</b>											
Weather			T (°C)		Road Cond						
Clear			25		Good						

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/29/2023**  
**Report #: 7**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621									
Original KB Elevation (m) 723.00			Ground Elevation (m) 716.60			Casing Flange Elevation (m) 716.60			Tubing Head Elevation (m) 718.60			Well Configuration Type Deviated							
KB-Ground Distance (m) 6.40				KB-Tubing Head Distance (m) 4.40				Total Depth (mKB) 3,478.00			PBTD (All) (mKB) Original Hole - 3,304.00								
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		1/25/1986		10.00		6.40		3.60		660.0				11.000					
Surface		1/31/1986		196.45		6.40		190.05		508.0				139.900		H-40			
Inter 1		8/5/1986		766.40		6.40		760.00		339.7		318.0		90.778		K-55		ST&C	
Inter 2		8/30/1986		3,178.00		6.40		3,171.60		244.5		222.5		64.735		L-80		LT&C	
Tie-Back		8/30/1986		3,165.00		6.40		3,158.60		177.8		157.2		43.157		L-80		LT&C	
Liner		2/25/1987		3,477.00		3,165.00		312.00		177.8		159.5		38.692		L-80		LT&C	
Open Hole		2/25/1987		3,478.00		3,477.00		1.00		222.3									
Zones / Event Sequence																			
Zone Name				Zone Code						Current Status									
Nahanni				/02															
Job Information / AFE																			
Objective Well Abandonment. OROGO Level II Well abandonment.																			
Target Formation Nahanni																			
Daily Pressures																			
Subtype								P (kPa)											
SICP								0											
SITP								0											
Operation Summary																			
Operations Next Report Period Continue to TOOHS with and lay out 88.9 mm Vam tubing string.																			
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	WOW	PP		Dense fog conditions. Unable to safely transport people across Liard River on jet boat until visibility Improves. On standby monitoring.												
06:45	07:30	0.75	7.50	TTLTY	PP		Travel contractors across Ft Laird river via jet boat												
07:30	07:45	0.25	7.75	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operation hazards. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421												
07:45	08:15	0.50	8.25	BOPS	PP		Check SCIP below tubing hanger and SITP. Both sides neutral. Unlock and open B.O.P pipe rams.												
08:15	10:45	2.50	10.75	PCKER	PP		Make up 73 mm spear grapple assembly on a 3 mtr 88.9 mm landing pup joint with a closed 88.9 mm stabbing valve installed and attempt to lower into tubing hanger, Engage spear grapple. Back out tubing hanger lag screws, Latch on elevators and pick up to packer on / off neutral at 3181 mKB. String weight is 36000 daN. Appears to have 5000 daN compression on packer. Work left hand torque down hole in neutral a few times. pick up in 5000 daN stages to 47000 daN. On / off releases. Pull out of hole. Unclamp and remove section of 9.5 mm continuos cappillary string. Lay out landing pup / with spear assembly, 177.8 mm 3.5" vam x 3.75" Nu Vam tubing hanger and 1 joint of 88.9 mm, 13.67 kg/m, L-80 Nu Vam tubing. Lay out 3.2 mtr 88.9 mm pup joint and tubing is full of fluid. Install stabbing valve and lower tubing string to working height.												
10:45	11:45	1.00	11.75	WOE	PP		Wait on Reliance Wireline / Slickline unit.												
11:45	14:45	3.00	14.75	ELECL	PP		Spot Reliance E-line / Slick line unit. Rig up lubricator and wireline BOP. Purge and pressure test lubricator to 1.4 mPa low, 14 mPa high with N2. Purge lubrcicator with N2 every run. Make up 7.14 mm braided e-line cable head and 43 mm tool string. RIH with CCL / 43 mm weight bar and 42 mm Tubing strip 9 shot, 3 gram pef gun. RIH to depth of 910 mKB. Perforate 88.9 mm tubing @ 13:15 hrs and retrieve spent gun to surface. Rig down wire line equipment. Release Slickline / E-line unit.												
14:45	15:45	1.00	15.75	Circulating	PP		Rig in pump lines. Reverse circulate 18 m3 of fresh water to rig tank at 500 ltrs / min x 1 mPa. Clean up tubing. No LEL's. No H2S. Rig down pump lines.												



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/29/2023**  
**Report #: 7**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>24 Hr Operational Comments</b>											
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details				
15:45	18:00	2.25	18.00	TOOH	PP		Begin to TOOH with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm cappillary string clamped. Remove cappillary string in 10 mtr sections with clamps. Lay out a total of 58 joints of 88.9 mm tubing and a 2.46 mtr pup jonit.				
18:00	18:30	0.50	18.50	SDFN	PP		Secure wellhead, location and equipment. Clean work areas and SDFN.				
18:30	00:30	6.00	24.50	WOD	PP		End report for day. Wait on daylight				
<b>6:00 Update</b>											
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details					
00:00	06:00	6.00		PP		Wait on daylight.					
<b>Other In Hole</b>											
Des		Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date					
Bridge Plug - Permanent			161.8	3,176.00	3,177.00	8/2/2023 10:30					
Thermal Cement			161.8	3,128.00	3,176.00	8/3/2023 12:00					
Fresh Water (Permanent)			161.8	30.00	3,128.00	8/3/2023 12:01					
Steel Plate			508.0	9.50	9.55	8/25/2023 11:00					
Glacier Tile			660.0	6.40	9.50	8/25/2023 11:00					
Glacier Tile			508.0	6.40	9.46	8/25/2023 11:00					
Gravel			177.8	6.40	9.40	8/25/2023 11:00					
Gravel			339.7	6.40	9.45	8/25/2023 11:00					
<b>Other In Hole - Pulled</b>											
Des		OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date	Pull Reason					
Bridge Plug - Permanent		157.2	2,911.00	2,912.00	8/1/2023	Pulled for suspension/ abandonment.					
<b>Bill 30 Requirements (Head Count Only)</b>											
Type					Count						
Day Shift					15						
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type					Count		Reg Work Time (hr)				
<b>Flare Permit</b>											
Contract # C03040 B			Agreement Start Date 1/31/2020				Agreement End Date				
<b>Flaring Volumes</b>											
Type	Subtype	Des		Amount		Units					
		No Gas Flared									
<b>Report Fluids Summary</b>											
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	134.00	113.50	20.50								
<b>Weather &amp; Road Condition</b>											
Weather			T (°C)		Road Cond						
Clear			23		Good						

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/30/2023**  
**Report #: 8**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621									
Original KB Elevation (m) 723.00			Ground Elevation (m) 716.60			Casing Flange Elevation (m) 716.60			Tubing Head Elevation (m) 718.60			Well Configuration Type Deviated							
KB-Ground Distance (m) 6.40				KB-Tubing Head Distance (m) 4.40				Total Depth (mKB) 3,478.00				PBTD (All) (mKB) Original Hole - 3,304.00							
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		1/25/1986		10.00		6.40		3.60		660.0				11.000					
Surface		1/31/1986		196.45		6.40		190.05		508.0				139.900		H-40			
Inter 1		8/5/1986		766.40		6.40		760.00		339.7		318.0		90.778		K-55		ST&C	
Inter 2		8/30/1986		3,178.00		6.40		3,171.60		244.5		222.5		64.735		L-80		LT&C	
Tie-Back		8/30/1986		3,165.00		6.40		3,158.60		177.8		157.2		43.157		L-80		LT&C	
Liner		2/25/1987		3,477.00		3,165.00		312.00		177.8		159.5		38.692		L-80		LT&C	
Open Hole		2/25/1987		3,478.00		3,477.00		1.00		222.3									
Zones / Event Sequence																			
Zone Name				Zone Code						Current Status									
Nahanni				/02															
Job Information / AFE																			
Objective Well Abandonment. OROGO Level II Well abandonment.																			
Target Formation Nahanni																			
Daily Pressures																			
Subtype								P (kPa)											
SICP								0											
SITP								0											
Operation Summary																			
Operations Next Report Period Wireline perforate tubing. Continue to TOO H with and lay out 88.9 mm Vam tubing string.																			
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	TTLY	PP		Travel contractors across Ft Laird river via jet boat												
07:00	07:15	0.25	7.25	Safety Mtg	PP		Held safety and operational meeting. Review contractor and PRL JSA for operation hazards. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421												
07:15	07:45	0.50	7.75	BOPS	PP		Check SICP and SITP. Both sides neutral. Unlock and open B.O.P pipe rams.												
07:45	10:45	3.00	10.75	TOOH	PP		Continue to TOO H with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove capillary string in 10 mtr sections with clamps. Lay out 40 more joints of 88.9 mm tubing (98 total). Install 88.9 mm mud can and lay out 5 more wet joints. No obstruction found at 931 mKB. There is 103 joints out of the hole tallied at a length of 948.63 mtrs. Joints are in good condition and drift to optimum gauge.												
10:45	13:45	3.00	13.75	ELECL	PP		Spot Reliance E-line / Slick line unit. Rig up lubricator and wireline BOP.Purge and pressure test lubricator to 1.4 mPa low, 14 mPa high with N2. Purge lucbricator with N2 every run. Make up 7.14 mm braided e-line cable head and 43 mm tool string. RIH with CCL / 43 mm weight bar and 56 mm gauge ring. Tag at 875 mKB. Attempt to push obstruction down hole. Solid tag. Retrieve tools to surface. Edges of gauge ring are curled and serrated. Make up 42 mm Tubing strip 5 shot, 3 gram pef gun. RIH to depth of 875 mKB. Tag obstruction and pick up 1 mtrs Perforate 88.9 mm tubing @ 873 mKB. RIH to 910 mKB and tag obstruction there. Retrieve spent gun to surface. Rig down wire line equipment.												
13:45	14:15	0.50	14.25	Circulating	PP		Rig in pump lines. Reverse circulate 4 m3 of fresh water to rig tank at 500 ltrs / min x 1 mPa. Clean up tubing. No LEL's. No H2S. Rig down pump lines.												
14:15	18:00	3.75	18.00	TOOH	PP		Continue to TOO H with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove capillary string in 10 mtr sections with clamps. Lay out 95 more joints of 88.9 mm tubing. Install 88.9 mm mud can and lay out 5 more wet joints. No obstruction found at 910 mKB point. There is 203 joints out of the hole tallied at a length of 1869.47 mtrs. Joints are in good condition and drift to optimum gauge.												
18:00	18:30	0.50	18.50	SDFN	PP		Secure wellhead, location and equipment. Clean work areas and SDFN.												
End report for day.																			



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/30/2023**  
**Report #: 8**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>24 Hr Operational Comments</b>											
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				
<b>6:00 Update</b>											
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details					
00:00	06:00	6.00			PP		Wait on daylight.				
<b>Other In Hole</b>											
Des		Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date					
Bridge Plug - Permanent			161.8	3,176.00	3,177.00	8/2/2023 10:30					
Thermal Cement			161.8	3,128.00	3,176.00	8/3/2023 12:00					
Fresh Water (Permanent)			161.8	30.00	3,128.00	8/3/2023 12:01					
Steel Plate			508.0	9.50	9.55	8/25/2023 11:00					
Glacier Tile			660.0	6.40	9.50	8/25/2023 11:00					
Glacier Tile			508.0	6.40	9.46	8/25/2023 11:00					
Gravel			177.8	6.40	9.40	8/25/2023 11:00					
Gravel			339.7	6.40	9.45	8/25/2023 11:00					
<b>Other In Hole - Pulled</b>											
Des		OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date	Pull Reason					
Bridge Plug - Permanent		157.2	2,911.00	2,912.00	8/1/2023	Pulled for suspension/ abandonment.					
<b>Bill 30 Requirements (Head Count Only)</b>											
Type					Count						
Day Shift					15						
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type					Count		Reg Work Time (hr)				
<b>Flare Permit</b>											
Contract # C03040 B			Agreement Start Date 1/31/2020			Agreement End Date					
<b>Flaring Volumes</b>											
Type	Subtype	Des	Amount	Units							
		No Gas Flared									
<b>Report Fluids Summary</b>											
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	134.00	113.50	20.50								
<b>Weather &amp; Road Condition</b>											
Weather			T (°C)			Road Cond					
Rain			15			Muddy					

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/31/2023**  
**Report #: 9**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					

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	1/25/1986	10.00	6.40	3.60	660.0		11.000		
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40	
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status
Nahanni	/02	

Job Information / AFE	
Objective Well Abandonment. OROGO Level II Well abandonment.	
Target Formation Nahanni	

Daily Pressures	
Subtype	P (kPa)
SICP	0
SITP	0

Operation Summary	
Operations Next Report Period Wireline perforate tubing. Continue to TOO H with and lay out 88.9 mm Vam tubing string.	
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	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 operation hazards. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421
07:30	08:30	1.00	8.50	ELECL	PP		Rig in Reliance E-line / Slick line unit. Rig up lubricator and wireline BOP. Purge and pressure test lubricator to 1.4 mPa low, 14 mPa high with N2. Purge lubricator with N2 every run. Make up 7.14 mm braided e-line cable head and 43 mm tool string. RIH with CCL / 43 mm weight bar and 56 mm gauge ring. Tag at 33 mKB. Attempt to push obstruction down hole. Solid tag. Retrieve tools to surface. Lay out wire line equipment.
08:30	09:00	0.50	9.00	BOPS	PP		Check SICP and SITP. Both sides neutral. Unlock and open B.O.P pipe rams.
09:00	09:45	0.75	9.75	TOOH	PP		Pull wet with mud can and lay out 4 joints 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove capillary string in 10 mtr sections with clamps. Find obstruction in joint # 208. Consist of permanent bridge plug body, bull nose, retainers, portion of element and slip dies.
09:45	11:45	2.00	11.75	ELECL	PP		Pick up lubricator and wireline BOP. Purge and pressure test lubricator to 1.4 mPa low, 14 mPa high with N2. Purge lubricator with N2 every run. Make up 7.14 mm braided e-line cable head and 43 mm tool string. RIH with CCL / 43 mm weight bar and 56 mm gauge ring. Tag at 738 mKB. Attempt to push obstruction down hole. Solid tag. Retrieve tools to surface. RIH with 56 mm magnet to same depth. Retrieve to surface. No material on magnet.
11:45	12:00	0.25	12.00	Safety Mtg	PP		Held safety and operational meeting. Discuss perforating hazards with all personell on location. Ensure all communication devices are disabled.
12:00	13:00	1.00	13.00	ELECL	PP		Make up 42 mm Tubing strip 5 shot, 3 gram pef gun. RIH to depth of 738 mKB. Tag obstruction and pick up 1 mtrs. Attempt to perforate. Gun miss fires.
13:00	13:15	0.25	13.25	Safety Mtg	PP		Held safety meeting Discuss hazards of live gun to surface operation. Ensure all communication devices are still disabled.

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 7/31/2023**  
**Report #: 9**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					









**24 Hr Operational Comments**

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
13:15	14:15	1.00	14.25	ELECL	PP		Retrieve live gun to surface. Disarm and make up second 42 mm Tubing strip 5 shot, 3 gram perf gun on new cable head and CCL. RIH to depth of 738 mKB. Tag obstruction and pick up 1 mtrs. Perforate 88.9 mm tubing @ 736 mKB. RIH to 738 mKB. Obstruction still there. Retrieve spent gun to surface. Rig down and release wire line equipment.
14:15	14:45	0.50	14.75	Circulating	PP		Rig in pump lines. Reverse circulate 4 m3 of fresh water to rig tank at 500 ltrs / min x 1 mPa. Clean up tubing. No LEL's. No H2S. Rig down pump lines.
14:45	17:15	2.50	17.25	TOOH	PP		Continue to TOOH with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove capillary string in 10 mtr sections with clamps. Lay out 78 more joints of 88.9 mm tubing till perforations. Install mud can and break out next connection. Cement in joint. Total of 285 joints of hole. Turn quarter turn next connection and see gas leak. Clear floor.
17:15	17:45	0.50	17.75	Safety Mtg	PP		Held safety meeting. Covered hot tap procedures and hazards. Set up muster / rescue station. Reviewed H2S hazards and procedure during release.
17:45	20:00	2.25	20.00	TRBSHOOT	PP		Install Team Hot tap in tubing joint #266. Tie in pump line and pressure up 10,000 kpa to hot tap valve. Tap tubing. Pressure equalizes to 8944 kpa. Tie in testers line and open pressure to test vessel. Bled off in 30 seconds. LEL readings with no H2S. Tie in rig pump to reverse circulate. Pressures up to 7 mPa. Bleed off to 4 mPa under 1 minute. Multiple times. Switch to forward circulate. Same results. Remove pump lines. Rig down hot tap equipment. Pull and lay out tapped joint.
20:00	20:30	0.50	20.50	SDFN	PP		Secure wellhead, location and equipment. Clean work areas and SDFN. End report for day.
20:30	00:00	3.50	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		161.8	3,176.00	3,177.00	8/2/2023 10:30
Thermal Cement		161.8	3,128.00	3,176.00	8/3/2023 12:00
Fresh Water (Permanent)		161.8	30.00	3,128.00	8/3/2023 12:01
Steel Plate		508.0	9.50	9.55	8/25/2023 11:00
Glacier Tile		660.0	6.40	9.50	8/25/2023 11:00
Glacier Tile		508.0	6.40	9.46	8/25/2023 11:00
Gravel		177.8	6.40	9.40	8/25/2023 11:00
Gravel		339.7	6.40	9.45	8/25/2023 11:00

**Other In Hole - Pulled**

Des	OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date	Pull Reason
Bridge Plug - Permanent	157.2	2,911.00	2,912.00	8/1/2023	Pulled for suspension/ abandonment.

**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 B	Agreement Start Date 1/31/2020	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)
Water	134.00	113.50	20.50				

**Weather & Road Condition**

Weather	T (°C)	Road Cond
Rain	16	Muddy



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/1/2023**  
**Report #: 10**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621		
Original KB Elevation (m) 723.00			Ground Elevation (m) 716.60			Casing Flange Elevation (m) 716.60			Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated	
KB-Ground Distance (m) 6.40			KB-Tubing Head Distance (m) 4.40			Total Depth (mKB) 3,478.00			PBTD (All) (mKB) Original Hole - 3,304.00			
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		1/25/1986		10.00		6.40	3.60	660.0		11.000		
Surface		1/31/1986		196.45		6.40	190.05	508.0		139.900	H-40	
Inter 1		8/5/1986		766.40		6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2		8/30/1986		3,178.00		6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back		8/30/1986		3,165.00		6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner		2/25/1987		3,477.00		3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole		2/25/1987		3,478.00		3,477.00	1.00	222.3				
Zones / Event Sequence												
Zone Name				Zone Code					Current Status			
Nahanni				/02								
Job Information / AFE												
Objective Well Abandonment. OROGO Level II Well abandonment.												
Target Formation Nahanni												
Daily Pressures												
Subtype							P (kPa)					
SICP							0					
SITP							0					
Operation Summary												
Operations Next Report Period Wireline bond log. TIH with open 2 7/8" tubing.												
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	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 operation hazards. Discuss Injured Worker Transportation Plan and ERP. QWEST # QW421					
07:30	09:00	1.50	9.00	TOOH	PP		Continue to TOOH with 88.9 mm 13.69 kg/m L-80 Nu Vam tubing string. With 9.5 mm capillary string clamped. Remove cappilary string in 10 mtr sections with clamps. Lay out 5 joints of 88.9 mm tubing is wet with emulsified, charged fluid. Install mud can and break out next 4 joints.					
09:00	09:45	0.75	9.75	Circulating	PP		Rig in pump lines. Attempt to forward circulate.Pressure up to10 mPa. No leak off. Bleed off fast. Repeated this process 4 times. Break reverse circulation. Pump 6 m3 fresh water. See heavy scale debris returns. Pump till returns clean. rig down pump line.					
09:45	11:15	1.50	11.25	TOOH	PP		Continue to TOOH with 88.9 mm tubing string. Removing capillary string in 10 mtr sections with clamps. Lay out 11 joints. Tubing is full of fluid. Break out 1 wet joint with mudcan.					
11:15	12:00	0.75	12.00	Circulating	PP		Rig in pump lines. Reverse circulate 6 m3 of fresh water to rig tank at 1 m3 / min x 1 mPa. Bring back 20 ltrs plus of scale debris. Clean up tubing. Rig down pump lines.					
12:00	14:00	2.00	14.00	TOOH	PP		Continue to TOOH with 88.9 mm tubing string. Removing capillary string in 10 mtr sections with clamps. Retrieve BHA to surface. Configuration as follows; 1.85 mtr pup, Injection sub, 2.89 mtr pup, "X" nipple, 2.89 mtr pup and on/off skirt. A total of 343 tubing joints and a 2.46 mtr pup at surface were laid out as well.					
14:00	15:30	1.50	15.50	BOPT	PP		Inspectors from the OROGO and AER arrive on location. Carry out B.O.P functions, drill, engine kills, equipment and personell certification checks. As well as general lease and operations inspection.					
15:30	17:30	2.00	17.50	ELECL	PP		Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in179.4 mm DSA. Install wire line wellhead equipment. Pressure test /purge with N2. RIH with 146 mm CCL/ gauge ring / junk basket to3178.9 mKB. Retrieve tools to surface and inspect. Pieces of tubing permanent bridge plug in basket. Lay out wireline equipment.					
17:30	18:00	0.50	18.00	SDFN	PP		Secure wellhead, location and equipment. Clean work areas and SDFN. End report for day.					
18:00	00:00	6.00	24.00	WOD	PP		Wait on daylight					



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/1/2023**  
**Report #: 10**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>6:00 Update</b>											
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details					
00:00	06:00	6.00		PP		Wait on daylight.					
<b>Tubing String Pulled</b>											
Tubing Description Tubing				Set Depth (mKB) 3,193.97		Pull Date 8/1/2023		Pull Reason Pulled for suspension/ abandonment.			
Item Des	Jts	Len (m)	OD (mm)		Com						
Tubing Hanger	1	0.24	179.4								
Tubing Pup Joint	3	5.73	88.9								
Tubing	343	3,162.00	88.9								
Tubing Pup Joint	1	1.85	88.9								
Injection Mandrel	1	0.78	88.9								
Tubing Pup Joint	1	2.89	88.9								
Profile Nipple	1	0.45	88.9								
Tubing Pup Joint	1	2.89	88.9								
On-Off Tool	1	0.63	88.9								
Seal Assembly	1	0.33	177.8								
Packer	1	1.07	177.8								
Cross Over - Reduce	1	0.34	177.8								
Tubing Pup Joint	1	2.89	88.9								
Profile Nipple	1	0.45	88.9								
Tubing Pup Joint	1	2.89	88.9								
Profile Nipple	1	0.45	88.9								
Tubing Pup Joint	1	3.09	88.9								
Profile Nipple	1	0.66	88.9								
Wireline Guide	1	0.15	121.0								
<b>Other In Hole</b>											
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date						
Bridge Plug - Permanent		161.8	3,176.00	3,177.00	8/2/2023 10:30						
Thermal Cement		161.8	3,128.00	3,176.00	8/3/2023 12:00						
Fresh Water (Permanent)		161.8	30.00	3,128.00	8/3/2023 12:01						
Steel Plate		508.0	9.50	9.55	8/25/2023 11:00						
Glacier Tile		660.0	6.40	9.50	8/25/2023 11:00						
Glacier Tile		508.0	6.40	9.46	8/25/2023 11:00						
Gravel		177.8	6.40	9.40	8/25/2023 11:00						
Gravel		339.7	6.40	9.45	8/25/2023 11:00						
<b>Other In Hole - Pulled</b>											
Des	OD (mm)	Top Depth (mKB)	Btm (mKB)	Mill/Pull Date	Pull Reason						
Bridge Plug - Permanent	157.2	2,911.00	2,912.00	8/1/2023	Pulled for suspension/ abandonment.						
<b>Bill 30 Requirements (Head Count Only)</b>											
Type	Count										
Day Shift	15										
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type	Count	Reg Work Time (hr)									
<b>Flare Permit</b>											
Contract # C03040 B			Agreement Start Date 1/31/2020				Agreement End Date				
<b>Report Fluids Summary</b>											
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	154.00	141.50	12.50								
<b>Weather &amp; Road Condition</b>											
Weather			T (°C)			Road Cond					
Rain			21			Muddy					

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/2/2023**  
**Report #: 11**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621		
Original KB Elevation (m) 723.00			Ground Elevation (m) 716.60			Casing Flange Elevation (m) 716.60			Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated	
KB-Ground Distance (m) 6.40			KB-Tubing Head Distance (m) 4.40			Total Depth (mKB) 3,478.00			PBTD (All) (mKB) Original Hole - 3,304.00			
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		1/25/1986		10.00		6.40	3.60	660.0		11.000		
Surface		1/31/1986		196.45		6.40	190.05	508.0		139.900	H-40	
Inter 1		8/5/1986		766.40		6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2		8/30/1986		3,178.00		6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back		8/30/1986		3,165.00		6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner		2/25/1987		3,477.00		3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole		2/25/1987		3,478.00		3,477.00	1.00	222.3				
Zones / Event Sequence												
Zone Name				Zone Code				Current Status				
Nahanni				/02								
Job Information / AFE												
Objective Well Abandonment. OROGO Level II Well abandonment.												
Target Formation Nahanni												
Daily Pressures												
Subtype						P (kPa)						
SICP						0						
Operation Summary												
Operations Next Report Period Load pipe racks with 73 mm 9.67 kg/m J-55 tubing. Talley, drift and run in hole. circulate well over to fresh. Spot balanced plug of 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	09:30	2.50	9.50	ELECL	PP		Spot Reliance E-line unit. Rig up lubricator and wireline BOP. Rig in179.4 mm DSA. Install wire line wellhead equipment. Purge with N2 initially and each run. Makeup and run in CCL / Setting Tool & Weatherford 144.5 mm x DB-8K Permanent Bridge Plug with Viton Elements. Tag top of on/off @ 3178.9 mKB. Pull up and set Bridge Plug at 3176 mKB x 10:39 hrs. Pull out hole with setting tool.					
09:30	09:45	0.25	9.75	PRESS	PP		Tie in rig pump. Takes 1.3 m3 of fresh water to fill casing. Pressure up to 7 mPa and hold for 10 mins. Test good.					
09:45	14:30	4.75	14.50	WL Logs	PP		RIH with CCL / RBL tool string. Perform high speed pass to top of bridge plug @ 3176 mKB. Correlate to depth. Log from 3175 mKB to 1275 mKB. Lose DC current to tool string. POOH and inspect tools @14:50 hrs.					
14:30	17:00	2.50	17.00	Rig Repair	PP	SLWL	Wireline crew drives to 18 km stage area to look for service parts.Trouble shoot wireline truck instrumentation. Re-tie cable head. Test line.					
17:00	19:00	2.00	19.00	WL Logs	PP		RIH with CCL / RBL tool string to 50 mtrs below last pulled bond log at 1325 mKB. Overlap and complete log to surface. Lay down and rig out wire line.					
19:00	19:30	0.50	19.50	SDFN	PP		Secure well, equipment and site. Clean work areas and SDFN. 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.					
NPT Problem Cumulative Hours / Cost												
Type								Dur (Gross) (hr)		Problem Cost (Cost)		
Slickline/Wireline surface equipment problems								2.50		0		



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/2/2023**  
**Report #: 11**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>Other In Hole</b>											
Des			Icon	OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date	
Bridge Plug - Permanent				161.8		3,176.00		3,177.00		8/2/2023 10:30	
Thermal Cement				161.8		3,128.00		3,176.00		8/3/2023 12:00	
Fresh Water (Permanent)				161.8		30.00		3,128.00		8/3/2023 12:01	
Steel Plate				508.0		9.50		9.55		8/25/2023 11:00	
Glacier Tile				660.0		6.40		9.50		8/25/2023 11:00	
Glacier Tile				508.0		6.40		9.46		8/25/2023 11:00	
Gravel				177.8		6.40		9.40		8/25/2023 11:00	
Gravel				339.7		6.40		9.45		8/25/2023 11:00	
<b>Bill 30 Requirements (Head Count Only)</b>											
Type						Count					
Day Shift						14					
Safety						14					
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type						Count		Reg Work Time (hr)			
<b>Flare Permit</b>											
Contract # C03040 B				Agreement Start Date 1/31/2020				Agreement End Date			
<b>Flaring Volumes</b>											
Type		Subtype		Des		Amount		Units			
				No Gas Flared							
<b>Report Fluids Summary</b>											
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	154.00	141.50	12.50								
<b>Weather &amp; Road Condition</b>											
Weather				T (°C)		Road Cond					
Clear				26		Fair					

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/3/2023**  
**Report #: 12**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					

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	1/25/1986	10.00	6.40	3.60	660.0		11.000		
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40	
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status
Nahanni	/02	

Job Information / AFE	
Objective Well Abandonment. OROGO Level II Well abandonment.	
Target Formation Nahanni	

Daily Pressures	
Subtype	P (kPa)
SICP	0

Operation Summary	
Operations Next Report Period Tag cement top. TOOH and lay 73 mm tubing. Begin rig out service rig and support equipment.	
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	14:45	7.75	14.75	TIH	PP		Load pipe racks. Talley drift and run in hole with 238 joints of 73 mm 9.67 kg/m J-55 tubing. Install 4 ft pup joint for a marker and carry on with 95 joints of 73 mm 9.67 kg/m L-80 tubing (total of 333 joints). Tag top of bridge plug at 3176 mKB. Pick up .5 of a mtr. Install buried 2.95 mtr pup joint for accessible working height with tubing bottom at 3175.5 mKB.
14:45	16:30	1.75	16.50	Circulating	PP		Rig in circulation lines. Reverse circulate 60 m3 fresh water at 700 ltr/min x 6.5 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 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 9.1 m3 fresh (non-saline) water 13°C. Circulated and balance cement plug from 3175.5 mKB to 3125.5 mKB (50 mtrs). No signs activity from SCVF. Rig down pump line.
17:30	18:15	0.75	18.25	RIHPOOH	PP		Pull slowly and lay down 8 joints 73 mm tubing. Position tubing bottom 3100 mKB.
18:15	19:15	1.00	19.25	Circulating	PP		Rig in circulation lines. Reverse circulate 18 m3 fresh water at 700 L/min x 5 MPa. Returns returns are clean fresh (non-saline) water. Send 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 hauls 3 m3 water to flocc tank at KM 18 tank farm.
19:15	19:30	0.25	19.50	TIH	PP		Lay out 2 more joints of 73 mm tubing. Placing tubing bottom at 3081 mKB.
19:30	20:00	0.50	20.00	SDFN	PP		Secure well, equipment and site. Clean work areas and SDFN. Travel to base. End report for day.
20:00	00:00	4.00	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.



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/3/2023**  
**Report #: 12**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>Other In Hole</b>											
Des		Icon	OD (mm)	Top Depth (mKB)		Btm (mKB)		Run Date			
Thermal Cement			161.8	3,128.00		3,176.00		8/3/2023 12:00			
Fresh Water (Permanent)			161.8	30.00		3,128.00		8/3/2023 12:01			
Steel Plate			508.0	9.50		9.55		8/25/2023 11:00			
Glacier Tile			660.0	6.40		9.50		8/25/2023 11:00			
Glacier Tile			508.0	6.40		9.46		8/25/2023 11:00			
Gravel			177.8	6.40		9.40		8/25/2023 11:00			
Gravel			339.7	6.40		9.45		8/25/2023 11:00			
<b>Bill 30 Requirements (Head Count Only)</b>											
Type				Count							
Day Shift				14							
Safety				14							
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type				Count				Reg Work Time (hr)			
<b>Flare Permit</b>											
Contract # C03040 B				Agreement Start Date 1/31/2020				Agreement End Date			
<b>Flaring Volumes</b>											
Type		Subtype		Des		Amount		Units			
				No Gas Flared							
<b>Report Fluids Summary</b>											
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	169.00	149.50	19.50	60.00	60.00	0.00					
<b>Weather &amp; Road Condition</b>											
Weather				T (°C)		Road Cond					
Clear				24		Fair					



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/4/2023**  
**Report #: 13**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					

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	1/25/1986	10.00	6.40	3.60	660.0		11.000		
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40	
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status
Nahanni	/02	

Job Information / AFE	
Objective	Well Abandonment. OROGO Level II Well abandonment.
Target Formation	Nahanni

Daily Pressures	
Subtype	P (kPa)
SICP	0

Operation Summary	
Operations Next Report Period	
Mobilize equipment. Stage at barge landing and release.	
Operation at 6am	
Wait on daylight.	

24 Hr Operational Comments						
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT
00:00	06:00	6.00	6.00	WOD	PP	
06:00	06:15	0.25	6.25	Safety Mtg	PP	
06:15	06:45	0.50	6.75	TTLY	PP	
06:45	07:00	0.25	7.00	Safety Mtg	PP	
07:00	07:15	0.25	7.25	TIH	PP	
07:15	09:15	2.00	9.25	TOOH	PP	
09:15	11:15	2.00	11.25	NR	PP	
11:15	15:15	4.00	15.25	TOOH	PP	
15:15	15:30	0.25	15.50	Circulating	PP	
15:30	16:30	1.00	16.50	RU/RD	PP	
16:30	18:30	2.00	18.50	RU/RD	PP	
18:30	19:00	0.50	19.00	SDFN	PP	
19:00	00:00	5.00	24.00	WOD	PP	










## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/4/2023**  
**Report #: 13**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>6:00 Update</b>											
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details					
00:00	06:00	6.00		PP		Wait on daylight.					
<b>Other In Hole</b>											
Des			Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date				
				508.0	9.50	9.55	8/25/2023 11:00				
Steel Plate				660.0	6.40	9.50	8/25/2023 11:00				
Glacier Tile				508.0	6.40	9.46	8/25/2023 11:00				
Gravel				177.8	6.40	9.40	8/25/2023 11:00				
Gravel				339.7	6.40	9.45	8/25/2023 11:00				
<b>Bill 30 Requirements (Head Count Only)</b>											
Type					Count						
Day Shift					14						
Safety					14						
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type					Count	Reg Work Time (hr)					
<b>Flare Permit</b>											
Contract # C03040 B				Agreement Start Date 1/31/2020				Agreement End Date			
<b>Flaring Volumes</b>											
Type	Subtype	Des			Amount		Units				
		No Gas Flared									
<b>Report Fluids Summary</b>											
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	169.00	187.50	-20.70	62.20	60.00	2.20					
<b>Weather &amp; Road Condition</b>											
Weather				T (°C)		Road Cond					
Smoke				17		Fair					

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/5/2023**  
**Report #: 14**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					

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	1/25/1986	10.00	6.40	3.60	660.0		11.000		
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40	
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status
Nahanni	/02	






Job Information / AFE	
Objective Well Abandonment. OROGO Level II Well abandonment.	
Target Formation Nahanni	

Daily Pressures	
Subtype	P (kPa)
SICP	0

Operation Summary	
Operations Next Report Period Load pipe and rental equipment on trucks. Release to home bases.	
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	14:00	7.00	14.00	RU/RD	PP		Complete final rig out of PWS # 830 mobile equipment. Tow each peice out of acces road with tow tractor and barge to Liard village side of river. Load rig onto wheeler and begin rig move back to Ft. St John. Stage remaining testing and rental equipment ready to mobilize in the morning. Clean and secure lease.
14:00	00:00	10.00	24.00	WOD	PP		End of report. 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
Steel Plate		508.0	9.50	9.55	8/25/2023 11:00
Glacier Tile		660.0	6.40	9.50	8/25/2023 11:00
Glacier Tile		508.0	6.40	9.46	8/25/2023 11:00
Gravel		177.8	6.40	9.40	8/25/2023 11:00
Gravel		339.7	6.40	9.45	8/25/2023 11:00

Bill 30 Requirements (Head Count Only)	
Type	Count
Day Shift	14
Safety	14



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/5/2023**  
**Report #: 14**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type						Count		Reg Work Time (hr)			
<b>Flare Permit</b>											
Contract # C03040 B				Agreement Start Date 1/31/2020				Agreement End Date			
<b>Flaring Volumes</b>											
Type		Subtype		Des		Amount		Units			
				No Gas Flared							
<b>Report Fluids Summary</b>											
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	169.00	219.50	-52.70	62.20	60.00	2.20					
<b>Weather &amp; Road Condition</b>											
Weather				T (°C)		Road Cond					
Clear				28		Good					

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/6/2023**  
**Report #: 15**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					

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	1/25/1986	10.00	6.40	3.60	660.0		11.000		
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40	
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status
Nahanni	/02	





Job Information / AFE	
Objective	Well Abandonment. OROGO Level II Well abandonment.
Target Formation	Nahanni

Daily Pressures	
Subtype	P (kPa)
SICP	0

Operation Summary	
Operations Next Report Period	All services travel back to base.
Operation at 6am	Wait on daylight.

24 Hr Operational Comments						
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT
00:00	06:00	6.00	6.00	WOD	PP	
06:00	06:15	0.25	6.25	Safety Mtg	PP	
06:15	09:00	2.75	9.00	TTLY	PP	
09:00	09:15	0.25	9.25	Safety Mtg	PP	
09:15	18:00	8.75	18.00	RU/RD	PP	
18:00	00:00	6.00	24.00	WOD	PP	

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
Steel Plate		508.0	9.50	9.55	8/25/2023 11:00
Glacier Tile		660.0	6.40	9.50	8/25/2023 11:00
Glacier Tile		508.0	6.40	9.46	8/25/2023 11:00
Gravel		177.8	6.40	9.40	8/25/2023 11:00



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/6/2023**  
**Report #: 15**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBSD (All) (mKB) Original Hole - 3,304.00					
<b>Other In Hole</b>											
Des		Icon		OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date	
Gravel				339.7		6.40		9.45		8/25/2023 11:00	
<b>Bill 30 Requirements (Head Count Only)</b>											
Type						Count					
Day Shift						8					
Safety						8					
<b>Contractor Hours (Head Count &amp; Hours)</b>											
Type						Count		Reg Work Time (hr)			
<b>Flare Permit</b>											
Contract # C03040 B				Agreement Start Date 1/31/2020				Agreement End Date			
<b>Flaring Volumes</b>											
Type		Subtype		Des		Amount		Units			
				No Gas Flared							
<b>Report Fluids Summary</b>											
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	169.00	219.50	-52.70	62.20	60.00	2.20					
<b>Weather &amp; Road Condition</b>											
Weather				T (°C)		Road Cond					
Clear				28		Good					



## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**

**Report Date: 8/25/2023**  
**Report #: 17**

API/UWI 300/F-25/6030-12330/01		Surface Legal Location E-25/6030-12330		Field Name Liard		State/Province NorthWest Territories		Working Interest (%) 64.81		License # N1621	
Original KB Elevation (m) 723.00		Ground Elevation (m) 716.60		Casing Flange Elevation (m) 716.60		Tubing Head Elevation (m) 718.60		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.40		KB-Tubing Head Distance (m) 4.40		Total Depth (mKB) 3,478.00		PBTD (All) (mKB) Original Hole - 3,304.00					
<b>Casing Strings</b>											
Csg Des	Run Date	Set Depth (mKB)	Top (mKB)	Len (m)	OD (mm)	ID (mm)	Wt/Len (kg/m)	Grade	Top Thread		
Conductor	1/25/1986	10.00	6.40	3.60	660.0		11.000				
Surface	1/31/1986	196.45	6.40	190.05	508.0		139.900	H-40			
Inter 1	8/5/1986	766.40	6.40	760.00	339.7	318.0	90.778	K-55	ST&C		
Inter 2	8/30/1986	3,178.00	6.40	3,171.60	244.5	222.5	64.735	L-80	LT&C		
Tie-Back	8/30/1986	3,165.00	6.40	3,158.60	177.8	157.2	43.157	L-80	LT&C		
Liner	2/25/1987	3,477.00	3,165.00	312.00	177.8	159.5	38.692	L-80	LT&C		
Open Hole	2/25/1987	3,478.00	3,477.00	1.00	222.3						
<b>Zones / Event Sequence</b>											
Zone Name		Zone Code				Current Status					
Nahanni		/02									
<b>Job Information / AFE</b>											
Objective Well Abandonment. OROGO Level II Well abandonment.											
Target Formation Nahanni											
<b>Daily Pressures</b>											
Subtype					P (kPa)						
SICP					0						
<b>Operation Summary</b>											
Operations Next Report Period Job completed.											
Operation at 6am Job completed											
<b>24 Hr Operational Comments</b>											
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	07:15	1.00	7.25	TTLY	PP		Travel contractor personal across Ft Laird river via jet boat. Weld truck travel across barge to area. Travel to site.				
07:15	07:30	0.25	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.				

## Daily ARO Operations

**Well: PARAMOUNT ET AL LIARD F-25A**  
**Pad: E-25/6030-12330**  
**Business Unit: Central and Other**  
**Rig: Precision Well Servicing 830**






**Report Date: 8/25/2023**  
**Report #: 17**

API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 64.81	License # N1621
Original KB Elevation (m) 723.00	Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	Tubing Head Elevation (m) 718.60	Well Configuration Type Deviated	
KB-Ground Distance (m) 6.40	KB-Tubing Head Distance (m) 4.40	Total Depth (mKB) 3,478.00	PBTD (All) (mKB) Original Hole - 3,304.00		

### 24 Hr Operational Comments

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
07:30	13:00	5.50	13.00	Cut/Cap	PP		<p>Load and travel track hoe to site.</p> <p>No visible bubbles around wellhead. Swept area and around wellhead for LEL. None detected. Test Production Casing and Surface Casing for LEL. None detected.</p> <p>Confirm no existence of underground lines near well centre.</p> <p>Track hoe dig bellhole around wellhead to depth of 4.0 m. Ensure proper slopping, stairway exit and spoil pile spacing from bellhole.</p> <p>Cut away 2 m of 720 / 660 mm conductor. Cement between (2) conductor and surface casing. Cut window in 508 mm Surface Casing, 339.7 mm Intermediate Casing, Tie Back Casing.</p> <p>Surface cement between Surface Casing and Intermediate Casing. No cement between Intermediate Casing and Tie Back Casing at surface. Cut 177.8 mm Tie Back Casing, 2.9 m (9.40 mKB), 339.7 mm Intermediate Casing 3.0 m ( 9.45 mKB), 508 mm Surface Casing at 3.1 m (9.46 mKB) depth below surface casing flange.</p> <p>Remove wellhead from bellhole. Stitch (vent) weld 6.3 mm plate on top of Intermediate Casing, Production Casing and Surface Casing. Weld write F-25 / N1621 on 177.8 mm Tie Back Casing cap.</p> <p>Back fill and tamp bellhole. Level and slop bell hole.</p> <p>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 1621 + Paramount Res Ltd + 60° 24'22.5" N + 123°35'7.984" W + NAD 83</p> <p>Move equipment for operations on 300/K-29-6030-12330</p> <p>Job completed.</p>
13:00	00:00	11.00	24.00	No Job Activity	PP		Wait on daylight.

### Other In Hole

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Steel Plate		508.0	9.50	9.55	8/25/2023 11:00
Glacier Tile		660.0	6.40	9.50	8/25/2023 11:00
Glacier Tile		508.0	6.40	9.46	8/25/2023 11:00
Gravel		177.8	6.40	9.40	8/25/2023 11:00
Gravel		339.7	6.40	9.45	8/25/2023 11:00

### Bill 30 Requirements (Head Count Only)

Type	Count
Day Shift	3
Safety	3

### Contractor Hours (Head Count & Hours)

Type	Count	Reg Work Time (hr)

### Flare Permit

Contract # C03040 B	Agreement Start Date 1/31/2020	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)
Water	169.00	219.50	-52.70	62.20	60.00	2.20	





## Daily ARO Operations

Well: PARAMOUNT ET AL LIARD F-25A  
Pad: E-25/6030-12330  
Business Unit: Central and Other  
Rig: Precision Well Servicing 830

Report Date: 8/25/2023  
Report #: 17

API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	Field Name Liard	State/Province NorthWest Territories	Working Interest (%) 64.81	License # N1621
Original KB Elevation (m) 723.00	Ground Elevation (m) 716.60	Casing Flange Elevation (m) 716.60	Tubing Head Elevation (m) 718.60	Well Configuration Type Deviated	
KB-Ground Distance (m) 6.40	KB-Tubing Head Distance (m) 4.40	Total Depth (mKB) 3,478.00	PBTD (All) (mKB) Original Hole - 3,304.00		
Weather & Road Condition					
Weather		T (°C)	Road Cond		
Clear		27	Good		



F-25  
N1621



## Tubing and Rods (Schematic)

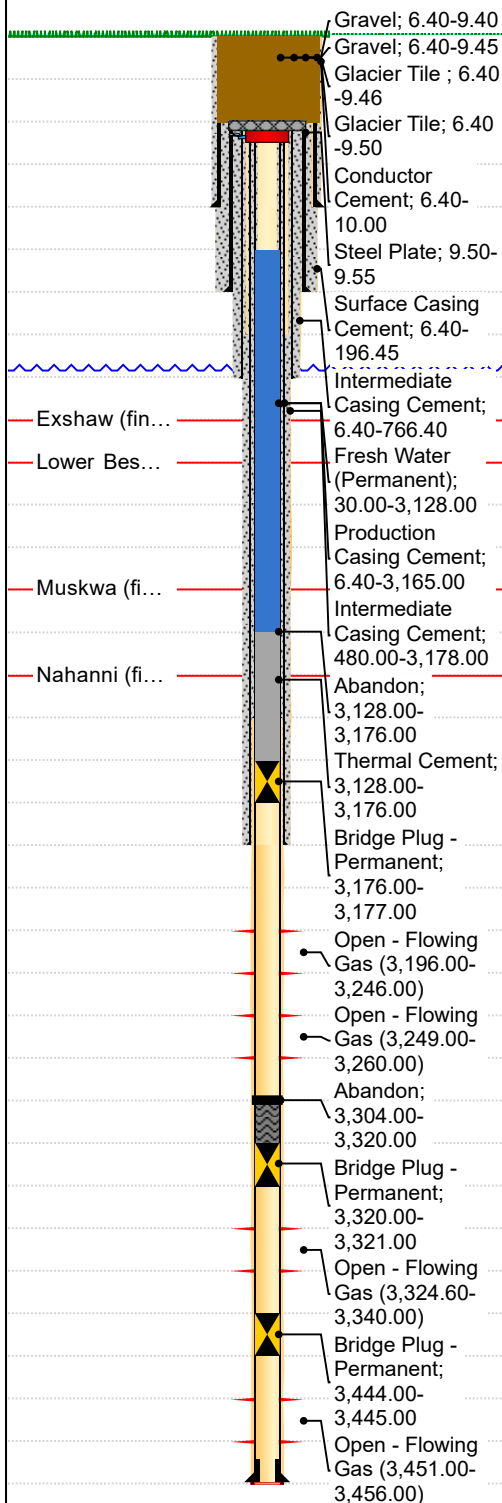
**Paramount**  
resources ltd.

Well Name: **PARAMOUNT ET AL LIARD F-25A**












API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	License # N1621	Field Name Liard	State/Province NorthWest Territories
Well Configuration Type Deviated	Original KB Elevation (m) 723.00	KB-Ground Distance (m) 6.40	KB-Casing Flange Distance (m) 6.40	KB-Tubing Head Distance (m) 4.40

Deviated, Original Hole, 8/28/2023 1:52:28 PM

Vertical schematic (actual)



<des> set at <depth>mKB on <dtmrun>

Des		Set Depth (mKB)	Run Date	Lateral Position		Pull Date		Cut/Pull Date		Depth Cut/Pull (...)	
Item #	Item Description		Joints	Length (m)	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top (mKB)		Btm (mKB)
Comment											
Other In Hole											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Comment											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Bridge Plug - Permanent			159.5		3,320.00		3,321.00		3/27/2008 00:00		
Comment											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Bridge Plug - Permanent			159.5		3,444.00		3,445.00		3/28/2008 00:00		
Comment											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Bridge Plug - Permanent			161.8		3,176.00		3,177.00		8/2/2023 10:30		
Comment											
1 m3 high temp and high pressure cement as per abandonment program, Displaced cement with 9.1 m3 fresh, non-saline water. on top of weatherford 149 mm Bridge plug.											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Thermal Cement			161.8		3,128.00		3,176.00		8/3/2023 12:00		
Comment											
Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1 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 9.1 m3 fresh (non-saline) water 13°C. Circulated and balance cement plug from 3175.5 mKB to 3125.5 mKB (50 mtrs). No signs activity from SCVF. Rig down pump line.											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Fresh Water (Permanent)			161.8		30.00		3,128.00		8/3/2023 12:01		
Comment											
Fresh Non-Saline Water											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Steel Plate			508.0		9.50		9.55		8/25/2023 11:00		
Comment											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Glacier Tile			660.0		6.40		9.50		8/25/2023 11:00		
Comment											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Glacier Tile			508.0		6.40		9.46		8/25/2023 11:00		
Comment											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Gravel			177.8		6.40		9.40		8/25/2023 11:00		
Comment											
Description			OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date
Gravel			339.7		6.40		9.45		8/25/2023 11:00		
Comment											





## Tubing and Rods (Schematic)

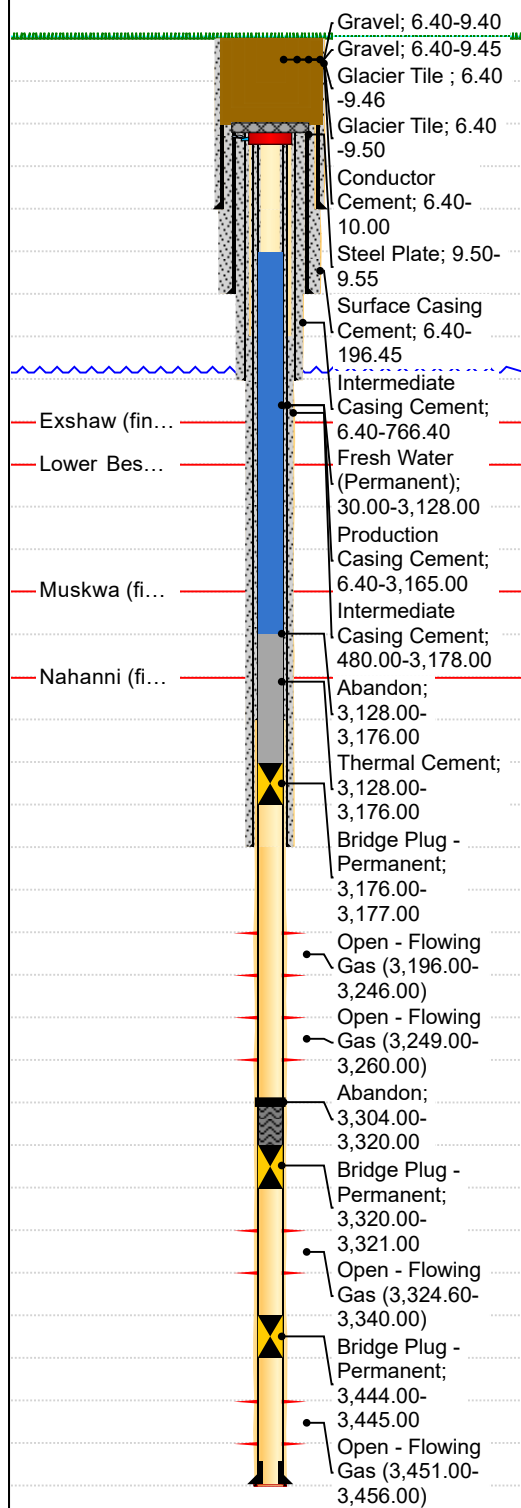
**Paramount**  
resources ltd.

Well Name: **PARAMOUNT ET AL LIARD F-25A**

API/UWI 300/F-25/6030-12330/01	Surface Legal Location E-25/6030-12330	License # N1621	Field Name Liard	State/Province NorthWest Territories
Well Configuration Type Deviated	Original KB Elevation (m) 723.00	KB-Ground Distance (m) 6.40	KB-Casing Flange Distance (m) 6.40	KB-Tubing Head Distance (m) 4.40

Deviated, Original Hole, 8/28/2023 1:52:29 PM

Vertical schematic (actual)



### Perforation Statuses

Top (mKB)	Top (TVD) (mKB)	Btm (mKB)	Btm (TVD) (mKB)	Date	Status
3,196.00	3,163.46	3,246.00	3,211.54		Open - Flowing Gas
3,249.00	3,214.41	3,260.00	3,224.92		Open - Flowing Gas
3,324.60	3,286.27	3,340.00	3,300.91		Open - Flowing Gas
3,451.00	3,407.09	3,456.00	3,411.90		Open - Flowing Gas

### Cement Stages

Type	Subtype	String	Des	End Date	Top (mKB)	Btm (mKB)
Plug		Original Hole	Abandon		2,903.00	2,911.00
Plug		Original Hole	Abandon		3,304.00	3,320.00
Plug		Tie-Back, 3,165.00mKB	Abandon		3,128.00	3,176.00