

February 13, 2023

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

Via email only

Attention: Ms. Pauline de Jong
Executive Director

**Cover Letter for Cut/Cap Operation as part of the Well Abandonment
PARAMOUNT ET AL ARROWHEAD, ACW-2022-PAR-O-15-WID1834**

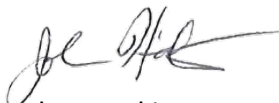
Please find attached for submission the required documents for Well Termination (Abandonment) of the 300/O-15/6030-12300/01 well, Licence # 1834

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.

Sincerely,



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

CHANGE OF WELL STATUS

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

INSTRUCTIONS:

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

WELL INFORMATION

Well Name	PARAMOUNT ET AL ARROWHEAD O-15	Operator	Paramount Resources Ltd.
Well Identifier (WID)	1834	Unique Well Identifier (30xx...)	300/O-15/6030/12300/01

STATUS INFORMATION

Effective Date: February 2, 2023

Well Type: Other

If other, specify:

Well Mode: Abandoned

If other, specify:

Other: Well never produced

If other, specify:

Fluid Production: (choose all applicable)

Not applicable	-	Steam	-
Crude Oil	-	Air	-
Gas	x-	Carbon Dioxide	-
Water	-	Nitrogen	-
Brine	-	Liquefied Petroleum Gas	-
Acid Gas	-	Bitumen	-
Solvent	-	Other	-

"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

Operator Paramount Resources Ltd.

Signature


Responsible Officer of Company

Date 2023-02-13

WELL TERMINATION RECORD

INSTRUCTIONS:

1. Complete both pages.
2. Send one electronic copy of this form and supporting technical documentation by email to orogo@gov.nt.ca. If you wish to communicate with OROGO in hard copy, please do so using the courier address found at www.orogo.gov.nt.ca.

WELL INFORMATION

Well Name	PARAMOUNT ET AL ARROWHEAD O-15	Operator	Paramount Resources Ltd.
Well Type	Exploratory Well (if Other, specify _____)	Contractor	Precision Well Servicing
Well Identifier	1834	Current Well Status	Abandoned

RELATED LICENCES AND AUTHORIZATIONS

Operating Licence No.	NWT-OL-2014-014	Operations Authorization	OA - 2020-001-PAR
PRA Licence No.	Exploration Licence NWT-OL-2014-014	Approval to Alter Condition of Well	ACW - 2022-PAR-O-15-WID1834

LOCATION INFORMATION

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

Surface	Lat 60 ° 41498 ' "	Long 123 ° 04351 ' "
Bottom Hole	Lat 60 ° 41498 ' "	Long 123 ° 04351 ' "

Region: Dehcho Unit 0 Section 15 Grid 60-30 123-00

ACTIVITY INFORMATION

Target Formation(s)	Nahanni	Field/Pool(s)	Liard / East
Elevation KB/RT	487.0 m	Ground Level / Seafloor	380.5 m
Spud/Re-entry Date	days	Total Depth	3301.0 m KB
Rig Release Date	March 6, 1999	Total Vertical Depth	3349.2 m KB

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing (m³)
339.7	81.1	J55	499.0	56
244.5	64.7	L80	1186.6	68
177.8	38.7	L80	2805.0	39.3

PLUGGING PROGRAM

Type of Plug	Interval (m KB)	Felt	Setting Depth (m KB)	Cementing (m ³)
Cement	2780-3301.0	Yes	3301.0	
Bridge	2298.0-2306.0	Select	2306.0	
Select	-	Select		
Select	-	Select		

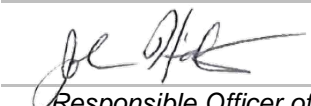
PERFORATION

Interval (m KB)	Comments
-	No Perforations
-	
-	
-	

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 1999
Additional Comments	

"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
Operator	Paramount Resources Ltd.		
Signature	 Responsible Officer of Company	Date	2023-02-13

ARO Daily Op Summary

Well Name: PARAMOUNT ET AL ARROWHEAD O-15

Well Header					
API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	License # N1834	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 380.50	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.20	KB-Casing Flange Distance (m)	Spud Date 1/18/1999	Rig Release Date 2/15/1999

Daily Operations

Start Date	Summary
1/14/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Construction start clearing, leveling and freezing in access road to site. - Contractors on standby in camp awaiting completion of access road and leveling of site. - End of report for day.
1/26/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Rig perform scheduled maintenance on equipment. - Contractors on standby in camp. - Wait on track hoe or welder to perform Cut n Cap operations on other sites. - Wait on construction to freeze in road access. - End of report
1/27/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Supervisor inspect site prior to start of operations. No signs of hydrocarbon staining on site. No signs of LEL or H2S at wellhead. - Travel PWS # 830, test unit, flare stack, (2) 63 m³ tank, (1) 100 HP boiler, 279 mm BOP, 279 mm BOP Accumulator building, 279 mm BOP Generator building, 5 MPa x 12 m³ test vessel, 19 m flare stack and (2) offices to site. Slow travel on ice road. - Construction assist in level ground around well centre. - Rig up PWS # 830 and support equipment as per contractor, government and PRL policies and procedures. Perform on going CAODC inspection as rig in equipment. Setup StarLink Communication. Rig in boiler and lines. Haul in 64 m³ non-saline (fresh) water. - Confirm surface casing vent is open. Perform 30 minute surface casing vent bubble test. No bubbles - Install Annular Bag onto BOP. Run accumulator lines to BOP. Setup remote control stand. - Heat and stump function BOP's. Start pressure 21 MPa. Close blind rams 8 secs. Close pipe rams in 8 secs. Close Annular 42 secs. End pressure 11 Mpa. Recharge system in 3:31 minutes. - Stump pressure test blind rams and tubing rams to 1.4 MPa (low) and 21 MPa (high). Held each 10 min. Test Annular Bag to 1.4 MPa (low) and 10 MPa (high). Held each test 10 min. - Confirm well static. Remove Upper Wellhead Dual 34.5 MPa Master Valve and 279 mm Adapter Flange. - Install 279 mm x 34.5 MPa Class III BOP on wellhead. Rig in tubing handling equipment. Thread in 73 mm Pup joint to Tubing Hanger. Pressure test wellhead connection 1.4 MPa (low) and 21 MPa (high). Held each 10 min. Pull out pup joint and tubing hanger. - Winterize and secure wellhead. SDFN rig crew. - Night boiler hand to heat wellhead and tank for night. - End report for day.
1/28/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Pump 0.1 m³ non-saline (fresh) water to fill casing. Pressure test 177.8 mm casing and PBP at 2306 mKB to 8216 KPa. Held 15 minutes. No leak off. Good test. Bleed off pressure. - Spot and rig in electric line unit. Install 279 mm electric line well control equipment and adapter flange on top of 34.5 MPa x 279 mm Class III BOP. Run in hole CCL / Radial Cement Evaluation Tool. Correlate on depth to 244.5 m Intermediate # 1 Casing Shoe at 1186.6 mKB. Tag obstruction Permanent Bridge Plug at 2306 mKB. Log well from 2306 mKB to surface. Send log into Calgary for further evaluation and correlation. Rig down electric line adapter flange and well control equipment. Rig down electric line unit. - Tally, drift, pickup and run in (1) Reg Tubing Collar 73 mm L-80 and (145) Joints Tubing 73 mm L-80 9.67 kg/m. Position tubing bottom 1380 mKB for night. - **NOTE** Run in hole slowly to allow rig pump to suck tubing displacement of water from casing. - Winterize and secure wellhead. - SDFN rig crew. - Night boiler hand to heat wellhead and tank for night. - End report for day.



ARO Daily Op Summary

Well Name: PARAMOUNT ET AL ARROWHEAD O-15

Well Header					
API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	License # N1834	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 380.50	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.20	KB-Casing Flange Distance (m)	Spud Date 1/18/1999	Rig Release Date 2/15/1999

Daily Operations

Start Date	Summary
1/29/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Continue to tally, drift, pickup and run in hole (94) Joints Tubing 73 mm L-80 9.67 kg/m - Tag Permanent Bridge Plug 2306 mKB. Position tubing bottom 2305.7 mKB. Rig in circulation lines. Reverse circulate 50 m³ fresh (non-saline) water at 500 L/min x 2.5 MPa. Recover 46 m³ produced water with salinity of 28,000 ppm. The last 4 m³ recover is fresh (non saline) water. The entire wellbore displaced to fresh (non-saline) water. - Wait on cement units and vac unit. - Pull and lay down (2) Joints Tubing 73 mm L-80. Tubing bottom 2288 mKB to lower fluid level. - Winterize and secure equipment and site. - SDFN rig crew. - Boiler hand to maintain heat on fluid and equipment. - End report for day.
1/30/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Run in (2) Joints Tubing 73 mm L-80 9.67 kg/m. Position tubing bottom 2305.7 mKB. - Rig in Cement Unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1.0 m³ Charger Thermal 40 + 0.3% CHRT-H x 1800 kg/m³ cement slurry. Slurry Yield 0.830 m³/t. Fluid loss 35 cc/min. Thick time 3.0 hrs. Pump rate 500 L/min x 3 MPa. Displace behind cement slurry 6.7 m³ fresh (non-saline) water 25°C. Circulated and balance cement plug from 2256 mKB to 2306 mKB. No signs activity from SCVF. Rig down pump line. Release cement units. - Lay down (6) Joints Tubing 73 mm L-80 6.99 kg/m. Position tubing bottom 2249 mKB. - Reverse circulate 10 m³ (total) - 25° fresh (non-saline) water at 500 L/min x 3.0 MPa. Returns show salinity 0 ppm. End returns are clean fresh (non-saline) water. Entire hole displaced to non-saline (fresh) water. - Wait 4 hours for cement to thicken. Rig out and release test vessel and flare stack. - Pump 0.50 m³ fresh (non-saline) water to pressure test 177.8 mm casing and cement to 7147 KPa. Held 15 minutes. Pressure end 7086 KPa. Good test. - Run in hole (2) Joints Tubing 73 mm L-80 9.67 kg/m. Tag cement top 2260 mKB with 1800 daN weight. - Pull and lay down 213 Joints Tubing 73 mm L-80 9.67 kg/m. Pull and stand 26 = Joints Tubing L-80 9.67 kg/m. Displacement from 2260 m of 73 mm tubing L-80 9.67 kg/m is 2.78 m³ (139 m). - Pump 1.7 m³ fresh (non-saline) water to fill fluid level in casing to 50 mKB. - Run in (1) Solid Bull Plug 73 mm x 0.10 m and (26) Joints Tubing 73 mm L-80 9.67 kg/m Tubing. Tubing bottom 251 mKB. This to confirm fluid level in casing is at 50 mKB. - Pull and lay down (26) Joints Tubing 73 mm L-80 9.67 kg/m and (1) Solid Bull Plug 73 mm x 0.10 m. - Vac unit clean out rig tank. - Winterize and secure equipment and site. SDFN rig crew. - Boiler hand to maintain heat on fluid and equipment. - End report for day.
1/31/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Rig down working floor and tubing handling equipment. Split and rig down 279.4 mm BOP and 279.4 mm Annular Bag. Spool remote accumulator lines and operations stand. Prepare to return rental BOP stack. - Install 279.4 mm Adapter Flange with Dual Master Valve on wellhead. Secure outlets on wellhead in preparation of Cut n cap operations scheduled for 2-Feb-2023. - Rig down pump line, return line and steam lines. Rig down PWS # 830 and support equipment. Prepare equipment for transport to staging area PRL 300/C-02-6040-12300/0. Haul all fluids off site. - Load and travel 279 mm BOP, 279 mm Annular, 279 mm Accumulator, 279 mm Accumulator Generator and misc fittings back to base. - Inspect, clean and secure site. - Travel PWS # 830 and support equipment to staging area PRL 300/C-02-6040-12300/0. - Winterize and secure PWS # 830 equipment at PRL 300/C-02-6040-12300/0. - SDFN

ARO Daily Op Summary

Well Name: PARAMOUNT ET AL ARROWHEAD O-15

Well Header					
API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	License # N1834	State/Province NorthWest Territories	Well Configuration Type Deviated
Ground Elevation (m) 380.50	Casing Flange Elevation (m)	KB-Ground Distance (m) 6.20	KB-Casing Flange Distance (m)	Spud Date 1/18/1999	Rig Release Date 2/15/1999

Daily Operations

Start Date	Summary
2/1/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - Mobilize PWS 830 to Laird Hwy. Load PWS # 830 on wheeler unit. Travel to BC / NWT Border. Unload PWS # 830. Travel rig and support equipment to Ft Nelson. - Load and haul to base (2) 63 m³ test tanks, (3) rig matting, 248 Joints Tubing 73 mm L-80 9.67 kg/m, (1) pipe rack, (1) catwalk, (1) bathroom and (1) office trailer. - Load and travel track hoe from PRL 300/B-41-6040-12245/0. to site. Unload track hoe. - No visible bubbles around wellhead. Swept area and around wellhead for LEL. None detected. Test Intermediate Casing # 1 and Surface Casing for LEL. None detected. - Confirm no existence of underground lines near well centre. - Track hoe start dig bellhole around wellhead to depth of 0.5 m. Ensure proper slopping, stairway exit and spoil pile spacing from bell hole. - Secure and flag off bellhole perimeter for night. - Leave equipment on site for night. - End report for day.
2/2/2023	<p>HSE Summary: No incident, accidents, or spills. Qwest Air medi-vac # QW410.</p> <p>Operations Summary:</p> <ul style="list-style-type: none"> - PWS # 830 start travel from Ft Nelson to Precision Well Servicing yard in Ft St John. - No visible bubbles around wellhead. Swept area and around wellhead for LEL. None detected. Swept 244.5 mm Production Casing and 339.7 mm Surface Casing for LEL. None detected. Confirm reading with welder 4 Head Monitor. - Track hoe finish digging bellhole around wellhead to depth of 3.0 m. Ensure proper slopping, stairway exit and spoil pile spacing from bellhole. No signs contaminated soil around wellhead. - Cut and remove 508 mm conductor at 2.60 m (9.1 mKB) below surface casing flange. Chip away cement between conductor and surface casing. - Cut window in 339.7 mm Surface Casing, 244.5 mm Intermediate #1 Casing and 177.8 mm Intermediate #2 Casing. - Cut and bevel 339.7 mm Surface Casing at 2.40 m (8.9 mKB). Cut and bevel 244.5 mm Intermediate # 1 Casing at 2.3 m (8.8 mKB). Cut and bevel 177.8 mm Intermediate Casing # 2 at 2.25 m (8.75 mKB). KB-GL = 6.5 m. - Surface cement between Surface Casing and Intermediate # 1 - 244.5 mm casing. No surface cement between Intermediate # 1 - 244.5 mm Casing and Intermediate # 2 - 177.8 mmCasing. - Stitch (vent) weld 6.3 mm plate on top of 339.7 mm Surface Casing, 244.5 mm Intermediate # 1 Casing and 177.8 mm Intermediate # 2 Casing. Weld write 1834 on 177.8 mm Production Casing cap. - Back fill and tamp bellhole. Rough level and mound up surface ground over bellhole. - 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 45° - Tombstone marker 1834 + Paramount Res Ltd + Lat 60° 24' 53.694" N + Long 123° 02' 31.174" W + NAD 83 - Cut n Cap job completed. Release contractors. - PWS # 830 finish travel from Ft Nelson to Precision Well Servicing yard in Ft St John. - Job completed. <p>*** Adjust final costs as received***</p>

Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 1/14/2023
Report #: 1

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834	
Original KB Elevation (m) 386.70		Ground Elevation (m) 380.50		Casing Flange Elevation (m)		Tubing Head Elevation (m)		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20		KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00		PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00					

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		10.00	6.20	3.80	508.0				
Surface		500.00	6.20	493.80	339.7	320.3	81.105	J-55	LT&C
Inter 1		1,196.00	6.20	1,189.80	244.5	222.5	64.735	L-80	LT&C
Inter 2		2,805.00	6.20	2,798.80	177.8	159.5	38.692	L-80	LT&C
Open Hole		3,301.00	2,805.00	496.00	155.6				








Zones / Event Sequence		
Zone Name	Zone Code	Current Status

Job Information / AFE	
Objective Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up	
Target Formation Cambrian	

Daily Pressures	
Subtype	P (kPa)
SICP	

Operation Summary	
Operations Next Report Period Operations wait for construction to complete lease access road and clearing of site.	
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	07:00	7.00	7.00	No Job Activity	PP		No activity on site.
07:00	19:00	12.00	19.00	RU/RD	PP		Construction start clearing, leveling and freezing in access road to site. Contractors on standby in camp awaiting completion of access road and leveling of site. End of report for day.
19:00	00:00	5.00	24.00	WOD	PP		Wait on daylight.

Other In Hole						
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	
Bridge Plug - Permanent		159.5	2,306.00	2,306.50		
Charger Thermal 40 + 0.3% CHRT-H		159.5	2,260.00	2,306.00	1/30/2023 08:30	
Fresh (non-saline) Water		159.5	50.00	2,260.00	1/30/2023 19:00	
Glacier (dirt) Tile		244.5	0.00	8.75	2/2/2023 14:00	
Steel Plate		339.7	8.75	8.81	2/2/2023 14:00	
Glacier (dirt) Tile		177.8	0.00	8.75	2/2/2023 14:00	
Glacier (dirt) Tile		339.7	0.00	8.75	2/2/2023 14:00	

Bill 30 Requirements (Head Count Only)	
Type	Count
Service	7

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

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)
Fresh Water	34.00		34.00				



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15

Pad: O-15/6030-12300

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 1/14/2023

Report #: 1

API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	State/Province NorthWest Territories	Working Interest (%) 50	License # N1834
Original KB Elevation (m) 386.70	Ground Elevation (m) 380.50	Casing Flange Elevation (m)	Tubing Head Elevation (m)	Well Configuration Type Deviated	
KB-Ground Distance (m) 6.20	KB-Tubing Head Distance (m)	Total Depth (mKB) 3,301.00	PBDT (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00		
Weather & Road Condition					
Weather		T (°C)	Road Cond		
Overcast		-18	Poor		



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 1/26/2023
Report #: 2

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834	
Original KB Elevation (m) 386.70		Ground Elevation (m) 380.50		Casing Flange Elevation (m)		Tubing Head Elevation (m)		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20		KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00		PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00					

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		10.00	6.20	3.80	508.0				
Surface		500.00	6.20	493.80	339.7	320.3	81.105	J-55	LT&C
Inter 1		1,196.00	6.20	1,189.80	244.5	222.5	64.735	L-80	LT&C
Inter 2		2,805.00	6.20	2,798.80	177.8	159.5	38.692	L-80	LT&C
Open Hole		3,301.00	2,805.00	496.00	155.6				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status

Job Information / AFE	
Objective Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up	
Target Formation Cambrian	

Daily Pressures	
Subtype	P (kPa)
SICP	

Operation Summary	
Operations Next Report Period Travel PWS # 830 and support to site. Start well abandonment 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	07:00	7.00	7.00	WOD	PP		Wait on daylight for rig operations.
07:00	07:30	0.50	7.50	Safety Mtg	PP		Discuss job scope and program Review contractor JSA, and Emergency Transportation Plan. Inspect work site for potential hazards. Review contractor JSA for maintenance operations. Qwest Air medi-vac # QW410. Secure onsite communications.
07:30	19:00	11.50	19.00	WOE	PP		Rig perform scheduled maintenance on equipment. Contractors on standby in camp. Wait on track hoe or welder to perform Cut n Cap operations on other sites. Wait on construction to freeze in road access. End of report.
19:00	00:00	5.00	24.00	WOD	PP		Wait on daylight.

6:00 Update							
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details	
00:00	07:00	7.00		PP		Wait on daylight.	

Other In Hole						
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date	
Bridge Plug - Permanent		159.5	2,306.00	2,306.50		
Charger Thermal 40 + 0.3% CHRT-H		159.5	2,260.00	2,306.00	1/30/2023 08:30	
Fresh (non-saline) Water		159.5	50.00	2,260.00	1/30/2023 19:00	
Glacier (dirt) Tile		244.5	0.00	8.75	2/2/2023 14:00	
Steel Plate		339.7	8.75	8.81	2/2/2023 14:00	
Glacier (dirt) Tile		177.8	0.00	8.75	2/2/2023 14:00	
Glacier (dirt) Tile		339.7	0.00	8.75	2/2/2023 14:00	

Bill 30 Requirements (Head Count Only)	
Type	Count
Service	7

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



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15

Pad: O-15/6030-12300

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 1/26/2023

Report #: 2

API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	State/Province NorthWest Territories	Working Interest (%) 50	License # N1834
Original KB Elevation (m) 386.70	Ground Elevation (m) 380.50	Casing Flange Elevation (m)		Tubing Head Elevation (m)	Well Configuration Type Deviated
KB-Ground Distance (m) 6.20	KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00	PBDT (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00	

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)
Fresh Water	64.00		64.00				

Weather & Road Condition

Weather	T (°C)	Road Cond
Overcast	-15	Poor

Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 1/27/2023
Report #: 3

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834				
Original KB Elevation (m) 386.70			Ground Elevation (m) 380.50			Casing Flange Elevation (m)			Tubing Head Elevation (m)			Well Configuration Type Deviated		
KB-Ground Distance (m) 6.20				KB-Tubing Head Distance (m)				Total Depth (mKB) 3,301.00			PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00			
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				10.00		6.20	3.80	508.0						
Surface				500.00		6.20	493.80	339.7	320.3	81.105		J-55	LT&C	
Inter 1				1,196.00		6.20	1,189.80	244.5	222.5	64.735		L-80	LT&C	
Inter 2				2,805.00		6.20	2,798.80	177.8	159.5	38.692		L-80	LT&C	
Open Hole				3,301.00		2,805.00	496.00	155.6						
Zones / Event Sequence														
Zone Name				Zone Code						Current Status				
Job Information / AFE														
Objective Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up														
Target Formation Cambrian														
Daily Pressures														
Subtype								P (kPa)						
SICP								0						
Operation Summary														
Operations Next Report Period Perform Cement Bond Log from PBTD to surface. Run in 73 mm L-80 tubng 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	07:00	7.00	7.00	WOD	PP		Wait on daylight.							
07:00	07:30	0.50	7.50	SMTG	PP		Discuss job scope and program Review contractor JSA, and Emergency Transportation Plan. Ensure contractors have CSO or PRL 2023 orientation. Inspect work site for potential hazards. Review contractor JSA for operations. Qwest Air medi-vac # QW410.							
07:30	11:30	4.00	11.50	Rig Mob	PP		Supervisor inspect site prior to start of operations. No signs of hydrocarbon staining on site. No signs of LEL or H2S at wellhead. Travel PWS # 830, test unit, flare stack, (2) 63 m³ tank, (1) 100 HP boiler, 279 mm BOP, 279 mm BOP Accumulator building, 279 mm BOP Generator building, 5 MPa x 12 m³ test vessel, 19 m flare stack and (2) offices to site. Slow travel on ice road. Construction assist in removing steel grating and level ground around well centre							
11:30	14:00	2.50	14.00	RU/RD	PP		Spot and rig up PWS # 830 and support equipment as per contractor, government and PRL policies and procedures. Perform on going CAODC inspection as rig in equipment. Setup StarLink Communication. Rig in boiler and lines. Haul in 64 m³ non-saline (fresh) water. Confirm surface casing vent is open to wellhead. Perform 30 minute surface casing vent bubble test. No bubbles observed.							
14:00	16:00	2.00	16.00	BOPS	PP		Install Annular Bag onto BOP. Run accumulator lines to BOP. Setup remote control stand. Stump function BOP's. Start pressure 21 MPa. Close blind rams 8 secs. Close pipe rams in 8 secs . Close Annular 42 secs. End pressure 11 Mpa. Recharge system in 3:31 minutes. Stump pressure test blind rams and tubing rams to 1.4 MPa (low) and 21 MPa (high). Held each 10 min. Test Annular Bag to 1.4 MPa (low) and 10 MPa (high). Held each test 10 min.							
16:00	16:30	0.50	16.50	NU/ND WH/XT	PP		Confirm wellbore is static. Remove Upper Wellhead Dual 34.5 MPa Master Valve and 279 mm Adapter Flange. Observe 244.5 mm x 88.9 mm tubing hanger in wellhead. Thread in 88.9 mm cross over and 73 mm Pup joint into Tubing Hanger							
16:30	17:30	1.00	17.50	BOPS	PP		Install 279 mm x 34.5 MPa Class III BOP on wellhead. Rig in heater and tubing handling equipment.							
17:30	18:00	0.50	18.00	BOPS	PP		Pressure test wellhead connection 1.4 MPa (low) and 21 MPa (high). Held each 10 min. Pull out pup joint and tubing hanger.							



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 1/27/2023
Report #: 3

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834	
Original KB Elevation (m) 386.70		Ground Elevation (m) 380.50		Casing Flange Elevation (m)		Tubing Head Elevation (m)		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20		KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00		PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00					

24 Hr Operational Comments

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
18:00	19:00	1.00	19.00	SDFN	PP		Secure and winterize pump, equipment and site. SDF rig crew.
19:00	00:00	5.00	24.00	WOD	PP		Boiler hand to maintain heat on fluid and equipment. End report for day.

6:00 Update

Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	07:00	7.00		PP		Wait on daylight.

Other In Hole

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent		159.5	2,306.00	2,306.50	
Charger Thermal 40 + 0.3% CHRT-H		159.5	2,260.00	2,306.00	1/30/2023 08:30
Fresh (non-saline) Water		159.5	50.00	2,260.00	1/30/2023 19:00
Glacier (dirt) Tile		244.5	0.00	8.75	2/2/2023 14:00
Steel Plate		339.7	8.75	8.81	2/2/2023 14:00
Glacier (dirt) Tile		177.8	0.00	8.75	2/2/2023 14:00
Glacier (dirt) Tile		339.7	0.00	8.75	2/2/2023 14:00

Bill 30 Requirements (Head Count Only)

Type	Count
Service	15

Contractor Hours (Head Count & Hours)

Type	Count	Reg Work Time (hr)

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)
Fresh Water	64.00		64.00				





Weather & Road Condition

Weather	T (°C)	Road Cond
Overcast	-16	Fair

Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 1/28/2023
Report #: 4

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834									
Original KB Elevation (m) 386.70			Ground Elevation (m) 380.50			Casing Flange Elevation (m)			Tubing Head Elevation (m)			Well Configuration Type Deviated							
KB-Ground Distance (m) 6.20				KB-Tubing Head Distance (m)				Total Depth (mKB) 3,301.00			PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00								
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				10.00		6.20		3.80		508.0									
Surface				500.00		6.20		493.80		339.7		320.3		81.105		J-55		LT&C	
Inter 1				1,196.00		6.20		1,189.80		244.5		222.5		64.735		L-80		LT&C	
Inter 2				2,805.00		6.20		2,798.80		177.8		159.5		38.692		L-80		LT&C	
Open Hole				3,301.00		2,805.00		496.00		155.6									
Zones / Event Sequence																			
Zone Name				Zone Code						Current Status									
Job Information / AFE																			
Objective Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up																			
Target Formation Cambrian																			
Daily Pressures																			
Subtype								P (kPa)											
SICP								0											
Operation Summary																			
Operations Next Report Period Run in hole 73 mm tubing string. Tag PBTD. Circulate hole to non-saline (fresh) water. Pump and balance 1 m³ - Class "G" cement plug 2256 mKB to 2306 mKB. Pull up above cement plug and backwash tubing string clean with non-saline (fresh) water.																			
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	07:00	7.00	7.00	WOD	PP		Wait on daylight.												
07:00	07:30	0.50	7.50	SMTG	PP		Discuss job scope and program Review contractor JSA, and Emergency Transportation Plan. Inspect work site for potential hazards. Review contractor JSA for operations to include eline logging and running in of tubing string. Qwest Air medi-vac # QW410.												
07:30	08:00	0.50	8.00	PRESS	PP		Pump 0.1 m³ non-saline (fresh) water to fill casing. Pressure test 177.8 mm casing and PBP at 2306 mKB to 8216 KPa. Held 15 minutes. End pressure 8178 KPa. No leak off. good test. Bleed off pressure.												
08:00	13:30	5.50	13.50	WL Logs	PP		Spot and rig in electric line unit. Install 279 mm electric line well control equipment and adpater flange on top of 34.5 MPa x 279 mm Class III BOP. Run in hole CCL / Radial Cement Evaluation Tool. Correlate on depth to 244.5 m Intermediate # 1 Casing Shoe at 1186.6 mKB. Tag obstruction Permanent Bridge Plug at 2306 mKB. Log well from 2306 mKB to surface. Send log into Calgary for further evaluation and correlation. Rig down electric line adapter flange and well control equipment. Rig down electric line unit.												
13:30	18:00	4.50	18.00	RIH	PP		Tally, drift, pickup and run in (1) Reg Tubing Collar 73 mm L-80 and (145) Joints Tubing 73 mm L-80 9.67 kg/m. Position tubing bottom 1380 mKB for night. **NOTE** Run in hole slowly to allow rig pump to suck tubing displacement of water from casing.												
18:00	19:00	1.00	19.00	SDFN	PP		Winterize and secure wellhead. SDFN rig crew.												
19:00	00:00	5.00	24.00	WOD	PP		Night boiler hand to heat wellhead and tank for night. End report for day.												
6:00 Update																			
Start Time	End Time	Dur (hr)	Time Code			Ops Category	NPT	Operation Details											
00:00	07:00	7.00				PP		Wait on daylight.											
Other In Hole																			
Des					Icon		OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date						
Bridge Plug - Permanent							159.5		2,306.00		2,306.50								
Charger Thermal 40 + 0.3% CHRT-H							159.5		2,260.00		2,306.00		1/30/2023 08:30						
Fresh (non-saline) Water							159.5		50.00		2,260.00		1/30/2023 19:00						
Glacier (dirt) Tile							244.5		0.00		8.75		2/2/2023 14:00						



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
 Pad: O-15/6030-12300
 Business Unit: Central and Other
 Rig: Precision Well Servicing 830

Report Date: 1/28/2023
 Report #: 4

API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	State/Province NorthWest Territories	Working Interest (%) 50	License # N1834		
Original KB Elevation (m) 386.70	Ground Elevation (m) 380.50	Casing Flange Elevation (m)	Tubing Head Elevation (m)	Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20	KB-Tubing Head Distance (m)	Total Depth (mKB) 3,301.00	PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00				
Other In Hole							
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date		
Steel Plate		339.7	8.75	8.81	2/2/2023 14:00		
Glacier (dirt) Tile		177.8	0.00	8.75	2/2/2023 14:00		
Glacier (dirt) Tile		339.7	0.00	8.75	2/2/2023 14:00		
Bill 30 Requirements (Head Count Only)							
Type	Count						
Service	14						
Contractor Hours (Head Count & Hours)							
Type	Count	Reg Work Time (hr)					
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)
Fresh Water	64.00		64.00				
Produced Water			1.70		1.70	-1.70	
Weather & Road Condition							
Weather		T (°C)	Road Cond				
Overcast		-27	Fair				

Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 1/29/2023
Report #: 5

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834	
Original KB Elevation (m) 386.70		Ground Elevation (m) 380.50		Casing Flange Elevation (m)		Tubing Head Elevation (m)		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20		KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00		PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00					

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		10.00	6.20	3.80	508.0				
Surface		500.00	6.20	493.80	339.7	320.3	81.105	J-55	LT&C
Inter 1		1,196.00	6.20	1,189.80	244.5	222.5	64.735	L-80	LT&C
Inter 2		2,805.00	6.20	2,798.80	177.8	159.5	38.692	L-80	LT&C
Open Hole		3,301.00	2,805.00	496.00	155.6				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status








Job Information / AFE	
Objective Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up	
Target Formation Cambrian	

Daily Pressures	
Subtype	P (kPa)
SICP	0

Operation Summary	
Operations Next Report Period Circulate and balance 1.0 m³ cement on top of Permanent Bridge Plug from 2256 mKB to 2306 mKB. Back wash tubing. Wait for cement to harden.	
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	07:00	7.00	7.00	WOD	PP		Wait on daylight.
07:00	07:30	0.50	7.50	SMTG	PP		Discuss job scope and program Review contractor JSA, and Emergency Transportation Plan. Inspect work site for potential hazards. Review contractor JSA for operations to include running in of tubing string. Qwest Air medi-vac # QW410.
07:30	09:30	2.00	9.50	RIH	PP		Continue to tally, drift, pickup and run in hole (94) Joints Tubing 73 mm L-80 9.67 kg/m
09:30	11:30	2.00	11.50	Circulating	PP		Tag Permanent Bridge Plug 2306 mKB. Position tubing bottom 2305.7 mKB. Rig in circulation lines. Reverse circulate 50 m³ fresh (non-saline) water at 500 L/min x 2.5 MPa. Recover 46 m³ produced water with salinity of 28,000 ppm. The last 4 m³ recover is fresh (non saline) water. The entire wellbore displaced to fresh (non-saline) water.
11:30	18:00	6.50	18.00	WOE	PP		Wait on cement units and vac unit.
18:00	19:00	1.00	19.00	SDFN	PP		Winterize and secure wellhead. SDFN rig crew.
19:00	00:00	5.00	24.00	WOD	PP		Night boiler hand to heat wellhead and tank for night. End report for day.

6:00 Update							
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details	
00:00	07:00	7.00		PP		Wait on daylight.	

Other In Hole					
Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent		159.5	2,306.00	2,306.50	
Charger Thermal 40 + 0.3% CHRT-H		159.5	2,260.00	2,306.00	1/30/2023 08:30
Fresh (non-saline) Water		159.5	50.00	2,260.00	1/30/2023 19:00
Glacier (dirt) Tile		244.5	0.00	8.75	2/2/2023 14:00
Steel Plate		339.7	8.75	8.81	2/2/2023 14:00
Glacier (dirt) Tile		177.8	0.00	8.75	2/2/2023 14:00
Glacier (dirt) Tile		339.7	0.00	8.75	2/2/2023 14:00



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
 Pad: O-15/6030-12300
 Business Unit: Central and Other
 Rig: Precision Well Servicing 830

Report Date: 1/29/2023
 Report #: 5

API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	State/Province NorthWest Territories	Working Interest (%) 50	License # N1834		
Original KB Elevation (m) 386.70	Ground Elevation (m) 380.50	Casing Flange Elevation (m)	Tubing Head Elevation (m)	Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20	KB-Tubing Head Distance (m)	Total Depth (mKB) 3,301.00	PBDT (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00				
Bill 30 Requirements (Head Count Only)							
Type			Count				
Service			11				
Contractor Hours (Head Count & Hours)							
Type			Count	Reg Work Time (hr)			
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)
Fresh Water	102.00		56.00	46.00		46.00	
Produced Water		38.00	-79.60	43.30	1.70	41.60	
Weather & Road Condition							
Weather			T (°C)	Road Cond			
Overcast			-20	Fair			

Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15

Pad: O-15/6030-12300

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 1/30/2023

Report #: 6

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834									
Original KB Elevation (m) 386.70			Ground Elevation (m) 380.50			Casing Flange Elevation (m)			Tubing Head Elevation (m)			Well Configuration Type Deviated							
KB-Ground Distance (m) 6.20				KB-Tubing Head Distance (m)				Total Depth (mKB) 3,301.00			PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00								
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				10.00		6.20		3.80		508.0									
Surface				500.00		6.20		493.80		339.7		320.3		81.105		J-55		LT&C	
Inter 1				1,196.00		6.20		1,189.80		244.5		222.5		64.735		L-80		LT&C	
Inter 2				2,805.00		6.20		2,798.80		177.8		159.5		38.692		L-80		LT&C	
Open Hole				3,301.00		2,805.00		496.00		155.6									
Zones / Event Sequence																			
Zone Name				Zone Code						Current Status									
Job Information / AFE																			
Objective Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up																			
Target Formation Cambrian																			
Daily Pressures																			
Subtype								P (kPa)											
SICP								0											
Operation Summary																			
Operations Next Report Period Remove 279 mm 34.5 MPa BOP's. Install 279.4 mm 34.5 MPa Upper Wellhead assembly. Rig down PWS # 830 and support equipment. Haul fluids off site. Travel and stage PWS # 830 and support equipmen at PRL C-02 for night.																			
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	07:00	7.00	7.00	WOD	PP		Wait on daylight.												
07:00	07:30	0.50	7.50	SMTG	PP		Discuss job scope and program Review contractor JSA, and Emergency Transportation Plan. Inspect work site for potential hazards. Review contractor JSA for operations to include cement and run in and out of tubing string. Qwest Air medi-vac # QW410.												
07:30	07:45	0.25	7.75	RIH	PP		Run in (2) Joints Tubing 73 mm L-80 9.67 kg/m. Position tubing bottom 2305.7 mKB.												
07:45	09:00	1.25	9.00	Cmt	PP		Rig in Cement Unit. Test pump line 16.0 MPa. Held 5 minutes. Mix and pump 1.0 m³ Charger Thermal 40 + 0.3% CHRT-H x 1800 kg/m3 cement slurry. Slurry Yield 0.830 m3/ft. Fluid loss 35 cc/min. Thick time 3.0 hrs. Pump rate 500 L/min x 3 MPa. Displace behind cement slurry 6.7 m³ fresh (non-saline) water 25°C. Circulated and balance cement plug from 2256 mKB to 2306 mKB. No signs activity from SCVF. Rig down pump line. Release cement units. Lay down (6) Joints Tubing 73 mm L-80 6.99 kg/m. Position tubing bottom 2249 mKB. Rig in circulation lines. Reverse circulate 10 m³ (total) - 25° fresh (non-saline) water at 500 L/min x 3.0 MPa. Returns show salinity 0 ppm. End returns are clean fresh (non-saline) water. Entire hole displaced to non-saline (fresh) water.												
09:00	13:00	4.00	13.00	WOC	PP		Wait 4 hours for cement to thicken. Rig out and release test vessel and flare stack.												
13:00	13:15	0.25	13.25	PRESS	PP		Pump 0.50 m³ fresh (non-saline) water to pressure test 177.8 mm casing and cement to 7147 KPa. Held 15 minutes. Pressure end 7086 KPa. Good test.												
13:15	13:30	0.25	13.50	RIH	PP		Run in hole (2) Joints Tubing 73 mm L-80 9.67 kg/m. Tag cement top 2260 mKB with 1800 daN weight.												
13:30	17:30	4.00	17.50	POOH	PP		Pull and lay down 213 Joints Tubing 73 mm L-80 9.67 kg/m. Pull and stand 26 = Joints Tubing L-80 9.67 kg/m. ""NOTE"": Displacement from 2260 m of 73 mm tubing L-80 9.67 kg/m is 2.78 m³ (139 m).												
17:30	17:45	0.25	17.75	BULLCIR	PP		Pump 1.7 m³ fresh (non-saline) water to fill fluid level in casing to 50 mKB.												
17:45	18:00	0.25	18.00	RIH	PP		Run in (1) Solid Bull Plug 73 mm x 0.10 m and (26) Joints Tubing 73 mm L-80 9.67 kg/m Tubing. Tubing bottom 251 mKB. This is to confirm fluid level in casing is at 50 mKB (min).												



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 1/30/2023
Report #: 6

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834	
Original KB Elevation (m) 386.70		Ground Elevation (m) 380.50		Casing Flange Elevation (m)		Tubing Head Elevation (m)		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20		KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00		PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00					

24 Hr Operational Comments

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
18:00	18:30	0.50	18.50	POOH	PP		Pull and lay down (26) Joints Tubing 73 mm L-80 9.67 kg/m and (1) Solid Bull Plug 73 mm x 0.10 m. "NOTE" Vac unit on site to clean out rig tank.
18:30	19:00	0.50	19.00	SDFN	PP		Winterize and secure equipment and site. SDFN rig crew. - Boiler hand to maintain heat on fluid and equipment. - End report for d
19:00	00:00	5.00	24.00	WOD	PP		Boiler hand to maintain heat on fluid and equipment. End report for day.

6:00 Update

Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	07:00	7.00		PP		Wait on daylight.

Other In Hole

Des	Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date
Bridge Plug - Permanent	⚠	159.5	2,306.00	2,306.50	
Charger Thermal 40 + 0.3% CHRT-H	■	159.5	2,260.00	2,306.00	1/30/2023 08:30
Fresh (non-saline) Water	■	159.5	50.00	2,260.00	1/30/2023 19:00
Glacier (dirt) Tile	■	244.5	0.00	8.75	2/2/2023 14:00
Steel Plate	■	339.7	8.75	8.81	2/2/2023 14:00
Glacier (dirt) Tile	■	177.8	0.00	8.75	2/2/2023 14:00
Glacier (dirt) Tile	■	339.7	0.00	8.75	2/2/2023 14:00

Bill 30 Requirements (Head Count Only)

Type	Count
Service	10
Service	8

Contractor Hours (Head Count & Hours)

Type	Count	Reg Work Time (hr)

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)
Fresh Water	102.00		56.00	46.00		46.00	
Other			-1.00	1.00	0.00	1.00	
Produced Water	0.00	82.00	-123.60	43.30	1.70	41.60	






Weather & Road Condition

Weather	T (°C)	Road Cond
Partly Cloudy	-21	Fair

Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 1/31/2023
Report #: 7

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834	
Original KB Elevation (m) 386.70		Ground Elevation (m) 380.50		Casing Flange Elevation (m)		Tubing Head Elevation (m)		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20		KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00		PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00					
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			10.00	6.20	3.80	508.0					
Surface			500.00	6.20	493.80	339.7	320.3	81.105	J-55	LT&C	
Inter 1			1,196.00	6.20	1,189.80	244.5	222.5	64.735	L-80	LT&C	
Inter 2			2,805.00	6.20	2,798.80	177.8	159.5	38.692	L-80	LT&C	
Open Hole			3,301.00	2,805.00	496.00	155.6					
Zones / Event Sequence											
Zone Name			Zone Code					Current Status			
Job Information / AFE											
Objective Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up											
Target Formation Cambrian											
Daily Pressures											
Subtype					P (kPa)						
SICP					0						
Operation Summary											
Operations Next Report Period Mobilize PWS 830 and support equipment to Ft Nelson with assistance of wheeler in NWT. Load and release rentals.											
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	07:00	7.00	7.00	WOD	PP		Wait on daylight.				
07:00	07:30	0.50	7.50	SMTG	PP		Discuss job scope and program Review contractor JSA, and Emergency Transportation Plan. Inspect work site for potential hazards. Review contractor JSA for operations to rig down and travel. Qwest Air medi-vac # QW410.				
07:30	09:30	2.00	9.50	BOPS	PP		Rig down working floor and tubing handling equipment. Split and rig down 279.4 mm BOP and 279.4 mm Annular Bag. Spool remote accumulator lines and operations stand. Prepare to return rental BOP stack.				
09:30	10:30	1.00	10.50	NU/ND WH/XT	PP		Install 279.4 mm Adapter Flange with Dual Master Valve on wellhead. Secure outlets on wellhead in preparation of Cut n cap operations scheduled for 2-Feb-2023.				
10:30	15:00	4.50	15.00	RU/RD	PP		Rig down pump line, return line and steam lines. Rig down PWS # 830 and support equipment. Prepare equipment for transport to staging area PRL 300/C-02-6040-12300/0. Load and travel 279 mm BOP, 279 mm Annular, 279 mm Accumulator, 279 mm Accumulator Generator and misc fittings back to base. Inspect, clean and secure site.				
15:00	17:00	2.00	17.00	Rig Mob	PP		Travel PWS # 830 and support equipment to staging area PRL 300/C-02-6040-12300/0.				
17:00	18:00	1.00	18.00	SDFN	PP		Winterize and secure equipment at PRL 300/C-02-6040-12300/0. SDFN rig crew.				
18:00	00:00	6.00	24.00	WOD	PP		Wait on day light.				
6:00 Update											
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details					
00:00	07:00	7.00		PP		Wait on daylight.					
Other In Hole											
Des				Icon	OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date
Bridge Plug - Permanent					159.5		2,306.00		2,306.50		
Glacier (dirt) Tile					244.5		0.00		8.75		2/2/2023 14:00
Steel Plate					339.7		8.75		8.81		2/2/2023 14:00
Glacier (dirt) Tile					177.8		0.00		8.75		2/2/2023 14:00
Glacier (dirt) Tile					339.7		0.00		8.75		2/2/2023 14:00



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15

Pad: O-15/6030-12300

Business Unit: Central and Other

Rig: Precision Well Servicing 830

Report Date: 1/31/2023

Report #: 7

API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	State/Province NorthWest Territories	Working Interest (%) 50	License # N1834		
Original KB Elevation (m) 386.70	Ground Elevation (m) 380.50	Casing Flange Elevation (m)	Tubing Head Elevation (m)	Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20	KB-Tubing Head Distance (m)	Total Depth (mKB) 3,301.00	PBSD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00				
Bill 30 Requirements (Head Count Only)							
Type			Count				
Service			10				
Contractor Hours (Head Count & Hours)							
Type			Count	Reg Work Time (hr)			
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)
Fresh Water	102.00		56.00	46.00		46.00	
Other			-1.00	1.00	0.00	1.00	
Produced Water	0.00	119.00	-160.60	43.30	1.70	41.60	
Weather & Road Condition							
Weather			T (°C)	Road Cond			
Partly Cloudy			-18	Fair			

Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 2/1/2023
Report #: 8

API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	State/Province NorthWest Territories	Working Interest (%) 50	License # N1834
Original KB Elevation (m) 386.70	Ground Elevation (m) 380.50	Casing Flange Elevation (m)	Tubing Head Elevation (m)	Well Configuration Type Deviated	
KB-Ground Distance (m) 6.20	KB-Tubing Head Distance (m)	Total Depth (mKB) 3,301.00	PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00		

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		10.00	6.20	3.80	508.0				
Surface		500.00	6.20	493.80	339.7	320.3	81.105	J-55	LT&C
Inter 1		1,196.00	6.20	1,189.80	244.5	222.5	64.735	L-80	LT&C
Inter 2		2,805.00	6.20	2,798.80	177.8	159.5	38.692	L-80	LT&C
Open Hole		3,301.00	2,805.00	496.00	155.6				

Zones / Event Sequence		
Zone Name	Zone Code	Current Status

Job Information / AFE	
Objective	Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up
Target Formation	Cambrian

Daily Pressures	
Subtype	P (kPa)
SICP	0

Operation Summary	
Operations Next Report Period	Cut n cap casing. Backfill bell hole.
Operation at 6am	Wait on daylight.

24 Hr Operational Comments							
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details
00:00	07:00	7.00	7.00	WOD	PP		Wait on daylight.
07:00	07:30	0.50	7.50	Safety Mtg	PP		Held safety and operational meeting. Discuss job scope and program with all personal. Document & discuss expected daily operations, hazards & control measures. Review Site ERP and service providers JSA's.
07:30	16:30	9.00	16.50	Rig Mob	PP		Mobilize PWS 830 to Laird Hwy. Load PWS # 830 on wheeler unit. Travel to BC / NWT Border. Unload PWS # 830. Travel rig and support equipment to Ft Nelson. Load and haul to base (2) 63 m³ test tanks, (3) rig matting, 248 Joints Tubing 73 mm L-80 9.67 kg/m, (1) pipe rack, (1) catwalk, (1) bathroom and (1) office trailer.
16:30	18:30	2.00	18.50	Cut/Cap	PP		Load and travel track hoe from PRL 300/B-41-6040-12245/0. to site. Unload track hoe. No visible bubbles around wellhead. Swept area and around wellhead for LEL. None detected. Test Intermediate Casing # 1 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 3.5 m. Ensure proper slopping, stairway exit and spoil pile spacing from hellhole. - Secure and flag off bell hole perimeter for night. - Leave equipment on site for night. - End report for day.
18:30	19:00	0.50	19.00	SDFN	PP		Secure and flag off bell hole perimeter for night. Leave equipment on site for night. End report for day.
19:00	00:00	5.00	24.00	WOE	PP		Wait on welder to complete Cut n Cap operations.

6:00 Update							
Start Time	End Time	Dur (hr)	Time Code	Ops Category	NPT	Operation Details	
00:00	07:00	7.00		PP		Wait on daylight.	



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 2/1/2023
Report #: 8

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834	
Original KB Elevation (m) 386.70		Ground Elevation (m) 380.50		Casing Flange Elevation (m)		Tubing Head Elevation (m)		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20		KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00		PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00					
Other In Hole											
Des			Icon	OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date	
Bridge Plug - Permanent				159.5		2,306.00		2,306.50			
Glacier (dirt) Tile				244.5		0.00		8.75		2/2/2023 14:00	
Steel Plate				339.7		8.75		8.81		2/2/2023 14:00	
Glacier (dirt) Tile				177.8		0.00		8.75		2/2/2023 14:00	
Glacier (dirt) Tile				339.7		0.00		8.75		2/2/2023 14:00	
Bill 30 Requirements (Head Count Only)											
Type						Count					
Service						15					
Contractor Hours (Head Count & Hours)											
Type						Count		Reg Work Time (hr)			
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)				
Fresh Water	102.00		56.00	46.00		46.00					
Other			-1.00	1.00	0.00	1.00					
Produced Water	0.00	119.00	-160.60	43.30	1.70	41.60					
Weather & Road Condition											
Weather				T (°C)		Road Cond					
Partly Cloudy				-32		Fair					

Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 2/2/2023
Report #: 9

API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	Field Name Arrowhead	State/Province NorthWest Territories	Working Interest (%) 50	License # N1834				
Original KB Elevation (m) 386.70	Ground Elevation (m) 380.50	Casing Flange Elevation (m)	Tubing Head Elevation (m)	Well Configuration Type Deviated					
KB-Ground Distance (m) 6.20	KB-Tubing Head Distance (m)	Total Depth (mKB) 3,301.00	PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00						
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		10.00	6.20	3.80	508.0				
Surface		500.00	6.20	493.80	339.7	320.3	81.105	J-55	LT&C
Inter 1		1,196.00	6.20	1,189.80	244.5	222.5	64.735	L-80	LT&C
Inter 2		2,805.00	6.20	2,798.80	177.8	159.5	38.692	L-80	LT&C
Open Hole		3,301.00	2,805.00	496.00	155.6				
Zones / Event Sequence									
Zone Name		Zone Code			Current Status				
Job Information / AFE									
Objective Well Abandonment. Level II OROGO well that is compliant. Plan is to abandon this well bore when access to Arrowhead is opened up									
Target Formation Cambrian									
Daily Pressures									
Subtype			P (kPa)						
SICP									
Operation Summary									
Operations Next Report Period Job completed.									
Operation at 6am Job completed.									
24 Hr Operational Comments									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details		
00:00	07:00	7.00	7.00	WOD	PP		Wait on daylight.		
07:00	07:30	0.50	7.50	Safety Mtg	PP		Held safety and operational meeting. Discuss job scope and program with all personal. Document & discuss expected daily operations, hazards & control measures. Review Site ERP and service providers JSA's.		
07:30	09:30	2.00	9.50	Rig Mob	PP		PWS # 830 start travel from Ft Nelson to Precision Well Servicing yard in Ft St John.		
09:30	15:30	6.00	15.50	Cut/Cap	PP		No visible bubbles around wellhead. Swept area and around wellhead for LEL. None detected. Swept 244.5 mm Production Casing and 339.7 mm Surface Casing for LEL. None detected. Confirm reading with welder 4 Head Monitor. Track hoe finish digging bellhole around wellhead to depth of 3.0 m. Ensure proper slopping, stairway exit and spoil pile spacing from bellhole. No signs contaminated soil around wellhead. Cut and remove 508 mm conductor at 2.60 m (9.1 mKB) below surface casing flange. Chip away cement between conductor and surface casing. Cut window in 339.7 mm Surface Casing, 244.5 mm Intermediate #1 Casing and 177.8 mm Intermediate #2 Casing. Cut and bevel 339.7 mm Surface Casing at 2.40 m (8.9 mKB). Cut and bevel 244.5 mm Intermediate # 1 Casing at 2.3 m (8.8 mKB). Cut and bevel 177.8 mm Intermediate Casing # 2 at 2.25 m (8.75 mKB). KB-GL = 6.5 m Surface cement between Surface Casing and Intermediate # 1 - 244.5 mm casing. No surface cement between Intermediate # 1 - 244.5 mm Casing and Intermediate # 2 - 177.8 mmCasing. Stitch (vent) weld 6.3 mm plate on top of 339.7 mm Surface Casing, 244.5 mm Intermediate # 1 Casing and 177.8 mm Intermediate # 2 Casing. Weld write 1834 on 177.8 mm Production Casing cap. Back fill and tamp bellhole. Rough level and mound up surface ground. Install (orange)Tombstone Surface Marker onto 73 mm pipe. Pipe is anchored and located 1.0 m x North of well centre. Weld write on 45° - Tombstone marker 1834 + Paramount Res Ltd + Lat 60° 24' 53.694" N + Long 123° 02' 31.174" W + NAD 83 Cut n Cap job completed. Release contractors.		



Daily ARO Operations

Well: PARAMOUNT ET AL ARROWHEAD O-15
Pad: O-15/6030-12300
Business Unit: Central and Other
Rig: Precision Well Servicing 830

Report Date: 2/2/2023
Report #: 9

API/UWI 300/O-15/6030-12300/01		Surface Legal Location O-15/6030-12300		Field Name Arrowhead		State/Province NorthWest Territories		Working Interest (%) 50		License # N1834	
Original KB Elevation (m) 386.70		Ground Elevation (m) 380.50		Casing Flange Elevation (m)		Tubing Head Elevation (m)		Well Configuration Type Deviated			
KB-Ground Distance (m) 6.20		KB-Tubing Head Distance (m)		Total Depth (mKB) 3,301.00		PBTD (All) (mKB) Original Hole - 2,780.00; Sidetrack 1 - 2,780.00					
24 Hr Operational Comments											
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Time Code	Ops Category	NPT	Operation Details				
15:30	19:00	3.50	19.00	Rig Mob	PP		PWS # 830 finish travel from Ft Nelson to Precision Well Servicing yard in Ft St John.				
19:00	00:00	5.00	24.00	No Job Activity	PP		Job completed.				
							*** Adjust final costs as received***				
Other In Hole											
Des				Icon	OD (mm)	Top Depth (mKB)	Btm (mKB)	Run Date			
Bridge Plug - Permanent					159.5	2,306.00	2,306.50				
Glacier (dirt) Tile					244.5	0.00	8.75	2/2/2023 14:00			
Steel Plate					339.7	8.75	8.81	2/2/2023 14:00			
Glacier (dirt) Tile					177.8	0.00	8.75	2/2/2023 14:00			
Glacier (dirt) Tile					339.7	0.00	8.75	2/2/2023 14:00			
Bill 30 Requirements (Head Count Only)											
Type						Count					
Service						15					
Contractor Hours (Head Count & Hours)											
Type						Count	Reg Work Time (hr)				
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)				
Fresh Water	102.00		56.00	46.00		46.00					
Other			-1.00	1.00	0.00	1.00					
Produced Water	0.00	119.00	-160.60	43.30	1.70	41.60					
Weather & Road Condition											
Weather				T (°C)		Road Cond					
Clear				-25		Fair					

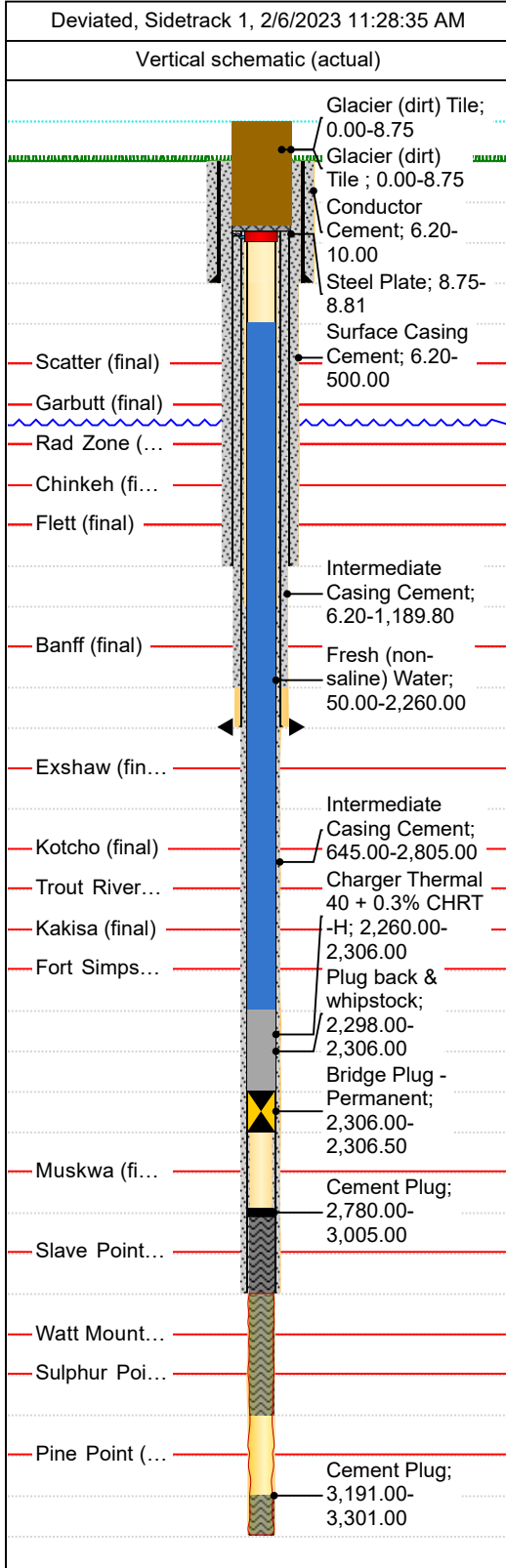









Tubing and Rods (Schematic)

Paramount
resources ltd.

Well Name: PARAMOUNT ET AL ARROWHEAD O-15

API/UWI 300/O-15/6030-12300/01	Surface Legal Location O-15/6030-12300	License # N1834	Field Name Arrowhead	State/Province NorthWest Territories
Well Configuration Type Deviated	Original KB Elevation (m) 386.70	KB-Ground Distance (m) 6.20	KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)



<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		
Bridge Plug - Permanent				159.5		2,306.00		2,306.50						
Comment														
Description				OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date		
Charger Thermal 40 + 0.3% CHRT-H				159.5		2,260.00		2,306.00		1/30/2023 08:30				
Comment														
Mix and pump 1.0 m³ Charger Thermal 40 + 0.3% CHRT-H x 1800 kg/m3 cement slurry. Slurry Yield 0.830 m3/t. Fluid loss 35 cc/min. Thick time 3.0 hrs. Pump rate 500 L/min x 3 MPa. Displace behind cement slurry 6.7 m³ fresh (non-saline) water 25°C. Circulated and balance cement plug from 2256 mKB to 2306 mKB.														
Description				OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date		
Fresh (non-saline) Water				159.5		50.00		2,260.00		1/30/2023 19:00				
Comment														
Description				OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date		
Glacier (dirt) Tile				244.5		0.00		8.75		2/2/2023 14:00				
Comment														
Description				OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date		
Steel Plate				339.7		8.75		8.81		2/2/2023 14:00				
Comment														
Description				OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date		
Glacier (dirt) Tile				177.8		0.00		8.75		2/2/2023 14:00				
Comment														
Description				OD (mm)		Top Depth (mKB)		Btm (mKB)		Run Date		Mill/Pull Date		
Glacier (dirt) Tile				339.7		0.00		8.75		2/2/2023 14:00				
Comment														
Cement Stages														
Type		Subtype		String		Des		End Date		Top (mKB)		Btm (mKB)		
Plug				Original Hole		Cement Plug				3,191.00		3,301.00		
Plug				Original Hole		Cement Plug				2,780.00		3,005.00		
Plug				Inter 2, 2,805.00mKB		Plug back & whipstock				2,298.00		2,306.00		

