Version: June 30, 2022

NWT OFFICE OF THE REGULATOR OF OIL AND GAS OPERATIONS

Well Inspection Report

Instructions

- Complete all pages.
- Sign and submit electronically within 30 days of the well inspection to orogo@gov.nt.ca.
- If you wish to submit a hard copy, please use the courier address at www.orogo.gov.nt.ca/contact-us.
- Refer to the *Well Suspension and Abandonment Guidelines and Interpretation Notes* (May 2022) for details on well inspection requirements.
- Report in metric units.

Required attachments:

☒ Photos of wellhead and well site *(Include descriptions)*
# of photos attached: 11

☒ Wellhead schematic
☒ Wellbore schematic

Well Information

Well name: 300 / O-15 / 6030-12300/00

4 digit WID: 1834

OROGO risk level: Level 2

Wellhead? ☒ Yes ☐ No
Pressure rating of all wellhead components: As per attached diagram

Pumpjack? ☐ Yes ☒ No

Operator: Paramount Resources Ltd.

Well status: Suspended

Coordinates *(In decimal degrees; verified onsite)*
Datum: ☐ NAD 27 ☒ NAD 83 ☐ Unknown
Lat: 60 degree 24 minutes 53.694 seconds
Long: 123 degree 02 minutes 31.174 seconds

Completed in H_2S zone? Choose an item.
☐ Estimated % of H_2S: Click or tap here to enter text. or
☒ Measured % of H_2S: 0.0

Inspection Date and Contact Information

Date of inspection: 2022-07-23

Date of previous inspection: 2020-09-29

Inspection conducted by:

Name: Dusty Schnieder
Company: Paramount Resources Ltd.
Phone: 780-897-5737
Email: justinlinkschneider@gmail.com

Environmental or Safety Concerns

(Report all incidents as required under section 75 of the Oil and Gas Drilling and Production Regulations*)*

Environmental or safety concerns? ☒ Yes ☐ No
If yes, provide details: Overgrouth of vegetation onsite

Inspection Results

Site

Well site accessible for inspection and monitoring? ☒ Yes ☐ No

Brush cleared 25 m around wellhead? ☐ Yes ☒ No

Equipment or debris on site? ☐ Yes ☒ No

Wind indicator present and functional? ☐ Yes ☒ No

Additional clean up required? ☒ Yes ☐ No

Provide details of all site accessibility concerns: Two helicopters landed on site at the same time but additional vegetation control will be required

Wellhead

Wellhead accessible for inspection and monitoring? ☒ Yes ☐ No

Surface casing vent open, operable and accessible in all seasons? ☒ Yes ☐ No

Valves chained and locked? ☒ Yes ☐ No

Pumpjack secure? ☐ Yes ☐ No ☒ N/A

Valves operate freely? ☒ Yes ☐ No

Visible marker or fence in place? ☒ Yes ☐ No
4-digit Well ID, operator and contact information up to date? ☒ Yes ☐ No

Pressure test well head seal assembly? ☒ Yes ☐ No
(If yes, provide details in comments section with supporting documentation)

Date of previous well head seal assembly pressure test: 2020-09-29

Surface Casing Vent Flow (SCVF) / Gas Migration (GM) testing

Evidence of SCVF? ☐ Yes ☒ No

Signs of GM? ☐ Yes ☒ No

SCVF test conducted? ☒ Yes ☐ No
(If yes, provide details in comments section with supporting documentation)

GM test conducted? ☒ Yes ☐ No
(If yes, provide details in comments section with supporting documentation)

Gas samples taken? ☐ Yes ☒ No
(If yes, provide details in comments section identifying location and anticipated date of submission of analysis to OROGO)

Shut-in pressures

Production casing pressure (kPa):
N/A

Production tubing pressures (kPa):
N/A

Intermediate casing pressure (kPa):
0.0 kPa

Any other readings taken:
Click or tap here to enter text.

Comments

Details of: ☒ SCVF/ GM testing *(Include source: SCV, wellbore or soil vapour)*
☒ Shut-in pressures *(Include equipment used, results, any changes from previous inspections and previous inspection dates)*
☒ Seal assembly testing *(Include maximum pressure tested and duration of test)*
☒ Other comments

2022-07-22
SCVF Testing. Ensure SCV Valve Open. Install SCVF Bubble Tester. Fill with fresh water. Perform 15 minute SCVF Bubble Test. Observe no bubbles.

Install Surface Solutions Electronic Continuous Pressure Recorder on Surface Casing Vent. Surface Solutions - Hawk 9000/9500c with 6000 kPa PSV,Serial Number 61394. Install 11:00 hrs x 22-Jul-22

Function production casing, intermediate casing and master valves to ensure working properly. Install Dead Weight Gauge. Observe no pressure in production casing valves or intermediate casing valves.

Remove Dead Weight Gauge. No signs of gas or fluid from production or intermediate casings. Install seal testing gauge on intermediate and production flanges. No signs of pressure. Open needle valve to confirm no signs of gas, fluid or pressure.

Perform Gas Migration testing at 1-2-3 distances from wellhead on North / South / East / West grids with Sensit (s/n : 1922) Portable Methane Detector that measures methane gas in ppm.
Distance from wellhead
1.0 meters: East = 1.0 ppm. North = 0.0 ppm. West = 3.0 ppm. South = 1.0 ppm 2.0 meters: East = 1.0 ppm. North = 1.0 ppm. West = 2.0 ppm. South = 1.0 ppm 3.0 meters: East = 2.0 ppm. North = 1.0 ppm. West = 1.0 ppm. South = 2.0 ppm

2022-07-23
Remove Surface Solutions Hawk 9000C/9500c continuous electronic monitor gauge. No pressure on surface casing. Re-install Surface Solutions Hawk 9000C/9500c continuous electronic monitor gauge with 6000 KPa PSV at 11:00 hrs.

Pump 0.10 m^3 fresh water to fill 177.8 mm casing. Pressure test 177.8 mm casing / PBP at 2306 mKB to 7.78 mPa. Held pressure 15 minutes. No leak off. Bleed off pressure.

Additional supporting documentation attached? ☐ Yes ☒ No

If yes, list attached documentation: Wellhed and Wellbore Schematics and photos

I certify based on personal knowledge of well inspection operations undertaken at the above named well that the above information is accurate.

Responsible Officer:

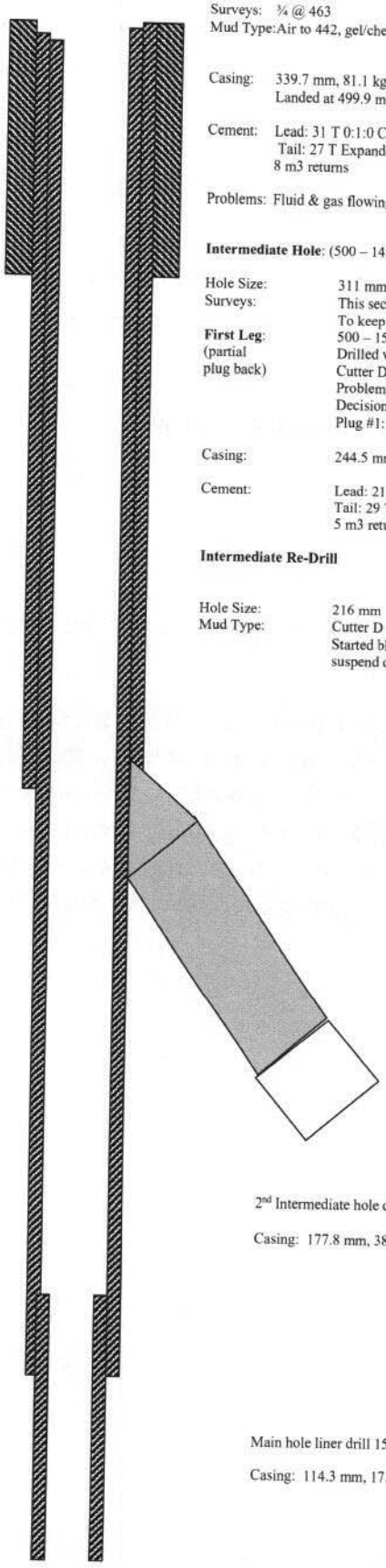
Name: John Hawkins, P.Eng.
Title: Director Asset Management
Operator: Paramount Resources Ltd.

Date: 2022-08-23

Signature:

Well Schematic
Paramount Berkley Arrowhead O15

All depths are in mKB unless otherwise specified



Surface Hole: (surface – 500)
Hole Size: 444 mm
Surveys: ¾ @ 463
Mud Type: Air to 442, gel/chem to 500

Casing: 339.7 mm, 81.1 kg/m, K55
Landed at 499.9 m KB

Cement: Lead: 31 T 0:1:0 Class "G" + 1% $CaCl_2$
Tail: 27 T Expandomix + 2% $CaCl_2$
8 m3 returns

Problems: Fluid & gas flowing up around conductor, had to mud up

Intermediate Hole: (500 – 1455 m)

Hole Size: 311 mm
Surveys: This section originally kicked out to 15° so was plugged back and re-drilled To keep vertical
First Leg: (partial plug back) 500 – 1560 m KB
Drilled with foam and air hammer to 867 m, well watered out. Drill with Cutter D to 1560 m MD.
Problems: Totco surveys indicated 7°, directional survey read 15°, Decision was made to plug back and redrill
Plug #1: 1195 – 1350 m w/ 16 T 0:1:0 High Density G + 1% CFR + 1% LTR

Casing: 244.5 mm, 64.74 kg/m, L80 landed at 1196 m

Cement: Lead: 21 T LW14 + 2% CaCl2 + 2% LWA + 2% SMS
Tail: 29 T 0:1:0 G + 0.4% CFL3 + 1% CFLH + 2% SPC 2
5 m3 returns

Intermediate Re-Drill

Hole Size: 216 mm
Mud Type: Cutter D to 1455 m (to get away from old wellbore
Started blowing well dry to drill with air (road bans were put on and had to suspend drilling)

2nd Intermediate hole drill 216 mm 1186 m to 2681 m KB

Casing: 177.8 mm, 38.69 kg/m IL-80 - 0 - 2681 m KB

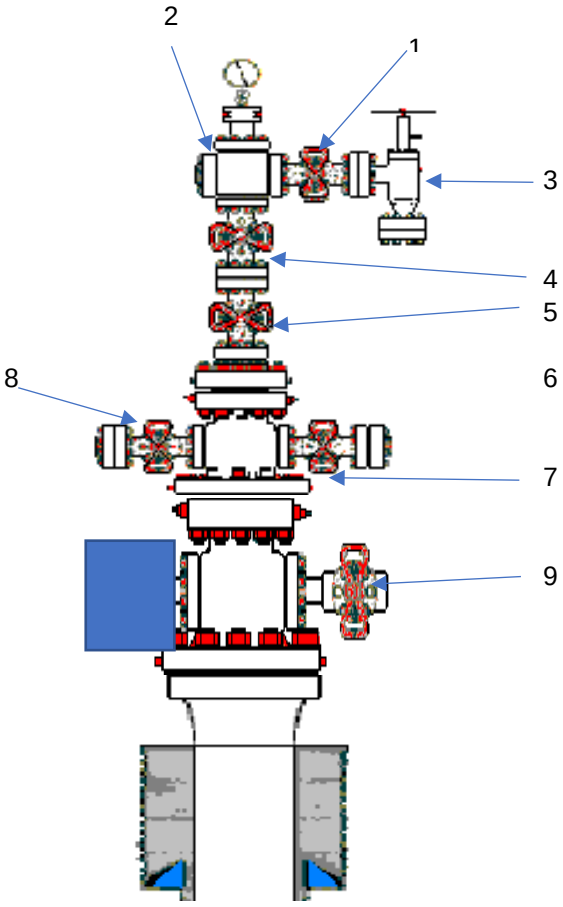
Main hole liner drill 156 mm hole 2681 - 3085 m KB

Casing: 114.3 mm, 17.26 kg/m, L-80, 2581 m - 3085 m KB

Paramount Et AL O-15
22-Jul-22
Dusty Schneider

WELLHEAD DESCRIPTION

1) Walker, Tubing Valve, 3 1/8" x 34.5 MPa, S/N : 23430-1
2) Flange Flow Tee Block, Walker, 3 1/8" , R-35, 34.5 MPa
3) Master Flo, 90 Degree Choke, 3 1/8", 34.5 MPa
4) Upper Master Valve: Walker 3 1/8", 34.5 MPa, S/N: 23429-1
5) Lower Master Valve: Walker 3 1/8", 34.5 MPa, S/N: 23428-1
6) Flange Connection: Walker, 11", 34.5 Mpa, R-54, S/N 6A0103
7) Prod Casing Valve, Walker, 34.5 MPa, 2 1/16", S/N: 2249188
8) Prod Casing Valve, Walker, 34.5 MPa, 2 1/16", S/N: 6A0103T3C
9) Inter Casing Valve, Walker, 34.5 Mpa, 2 1/16", S/N: 9412129-1H




ARROWHEAD

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Surface Solutions
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1-HOUR EMERGENCY RESPONSE
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www.surfacesolutions.ca
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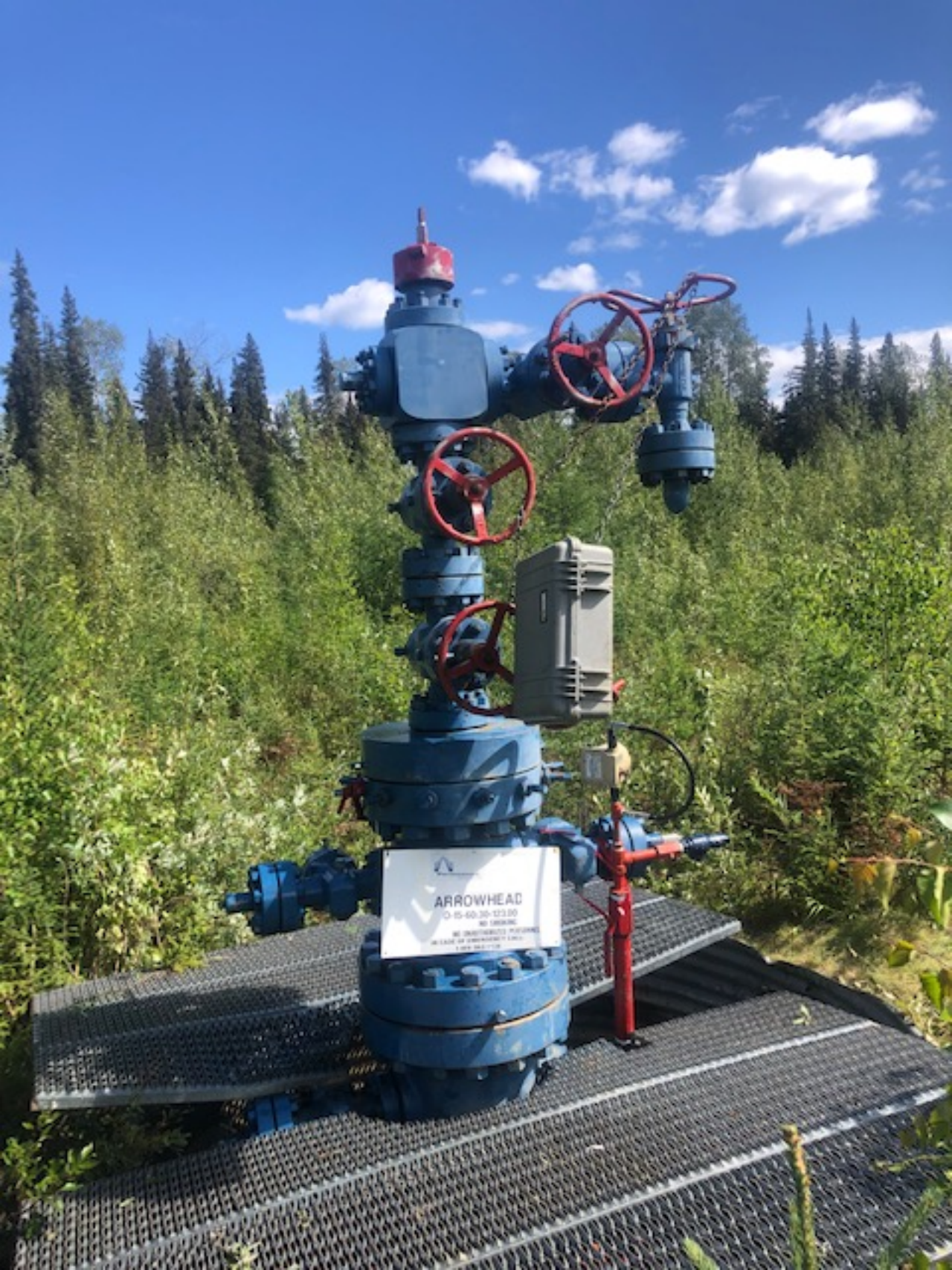
NO SMOKING
NO UNAUTHORIZED PERSONNEL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