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## Well Inspection Report

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### Instructions

- Complete all pages.
- Sign and submit electronically within 30 days of the well inspection to [orogo@gov.nt.ca](mailto: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](http://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: 9 pictures: (2) wellhead, sign, overhead view of site., GM calibration and test unit
- Wellhead schematic
- Wellbore schematic

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### Well Information

Well name: 302/ K-29/6030--12330/02

4 digit WID: 1980

OROGO risk level: Level 1

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 28 minutes

Long: 123 degree 35 minutes

Completed in H<sub>2</sub>S zone? Choose an item.

Estimated % of H<sub>2</sub>S: Click or tap here to enter text. or

Measured % of H<sub>2</sub>S: 0

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### Inspection Date and Contact Information

Date of inspection: 2022-08-24

Date of previous inspection: 2021-08-20

Inspection conducted by:

Name: Dusty Schneider

Company: Paramount Resources Ltd

Phone: 780-897-5737

Email: [justinlinkschneider@gmail.com](mailto:justinlinkschneider@gmail.com)

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### 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: No over growth of vegetation. Is on a facility site.

## Inspection Results

### Site

Well site accessible for inspection and monitoring?  Yes  No

Equipment or debris on site?  Yes  No

Additional clean up required?  Yes  No

Provide details of all site accessibility concerns: [Click or tap here to enter text.](#)

Brush cleared 25 m around wellhead?  Yes  No

Wind indicator present and functional?   Yes  No

### Wellhead

Wellhead accessible for inspection and monitoring?  Yes  No

Valves chained and locked?  Yes  No

Valves operate freely?  Yes  No

Pressure test well head seal assembly?  Yes  No

*(If yes, provide details in comments section with supporting documentation)*

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

Pumpjack secure?  Yes  No  N/A

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

Date of previous well head seal assembly pressure test: 2021-08-20

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

Evidence of SCVF?  Yes  No

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

Signs of GM?  Yes  No

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):  
0.0 KPa

Intermediate casing pressure (kPa):  
0 KPa

Production tubing pressures (kPa):  
n/a

Any other readings taken:  
[Click or tap here to enter text.](#)

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## 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

SCVF Testing. Ensure SCV Valve Open. Install SCVF Bubble Tester. Fill with fresh water. Perform 15 minute SCVF Bubble Test. No bubbles observed.

Function production casing, intermediate casing and master valves to ensure working properly. Able to open and close all valves.

Install Dead Weight Gauge. Observe 0 KPa pressure in production casing.

Test casing for H<sub>2</sub>S. No reading H<sub>2</sub>S. Test casing for LEL. Over range 4 head monitor. No readings from surface casing vent.

Install seal testing gauge on production flanges. No signs of pressure. Open needle valve to confirm no signs of gas, fluid or pressure. Pressure up tubing head flange seal to 200 kPa.

Perform Gas Migration testing at 1-2-3 distances from wellhead on North / South / East / West grids with Brogan GX-2012 ( s/n : |G053 ) Portable Methane Detector that measures methane gas in ppm.

Distance from wellhead

1.0 meters: East = 0.0 ppm. North = 0.0 ppm. West = 0.0 ppm. South = 0.0 ppm

2.0 meters: East = 0.0 ppm. North = 0.0 ppm. West = 0.0 ppm. South = 0.0 ppm

3.0 meters: East = 0.0 ppm. North = 1.0 ppm. West = 1.0 ppm. South = 1.0 ppm

Additional supporting documentation attached?  Yes  No

If yes, list attached documentation: Wellbore Pictures, Wellbore Diagram, Wellhead Diagram, Monitor Calibration Sheet

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

Responsible Officer:

Date: November 11, 2022.

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

Signature:



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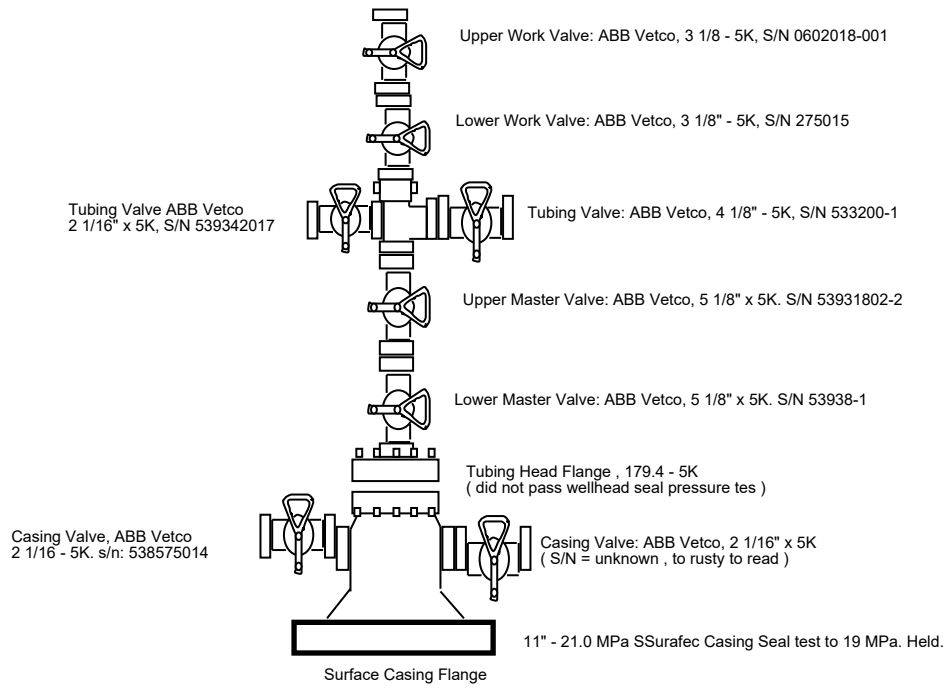
24-Aug-2022  
Same wellhead. Dusty Schneider

Paramount et al Laird 2K-29.



Inspected by Justin D Schneider

20-Aug-2021





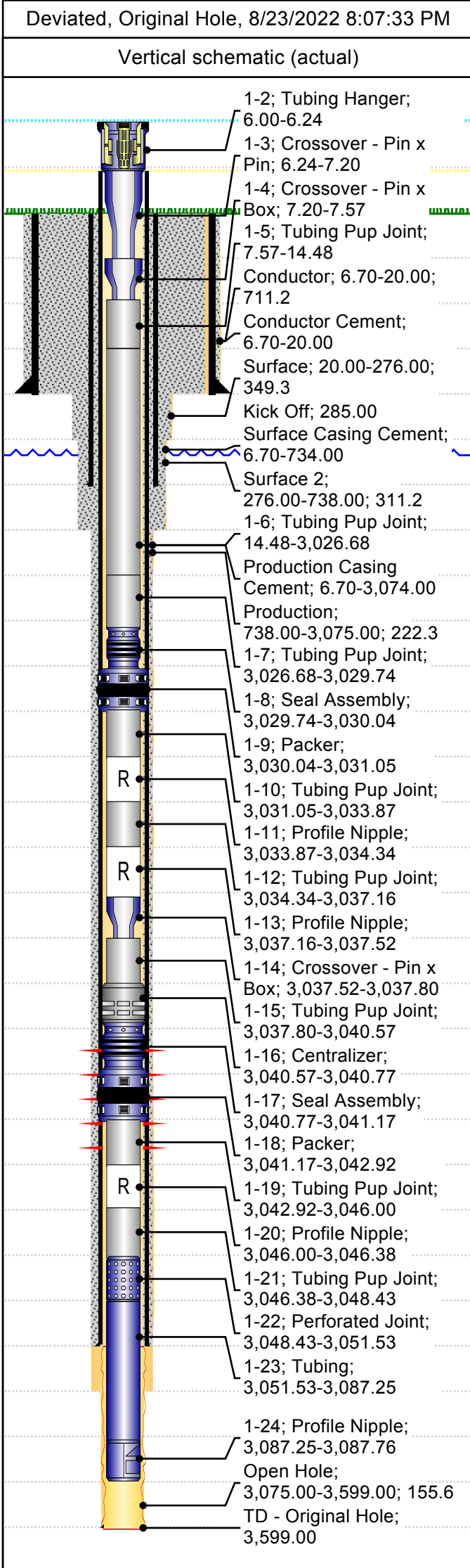


**Paramount**  
resources ltd.

## Tubing and Rods (Schematic)

**Well Name: PARAMOUNT ET AL LIARD 2K-29**

|                                     |   |                                |                                       |   |
|-------------------------------------|---|--------------------------------|---------------------------------------|---|
| API/UWI<br>302/K-29/6030-12330/02   | Surface Legal Location<br>K-29/6030-12330 | License #<br>N1980             | Field Name<br>Liard                   | State/Province<br>NorthWest Territories |
| Well Configuration Type<br>Deviated | Original KB Elevation (m)<br>416.60       | KB-Ground Distance (m)<br>6.70 | KB-Casing Flange Distance (m)<br>6.70 | KB-Tubing Head Distance (m)<br>6.25     |



| Tubing set at 3,087.76mKB on 10/18/2004 00:00 |                          |                 |            |            |         |           |                  |           |           |  |
|---|--------------------------|-----------------|------------|------------|---------|-----------|------------------|-----------|-----------|--|
| Tubing Description                            |                          | Set Depth (mKB) |            | Run Date   |         |           | Lateral Position |           |           |  |
| Tubing  |                          | 3,087.76        |            | 10/18/2004 |         |           |                  |           |           |  |
| Item #  | Item Description         | Joints          | Length (m) | OD (mm)    | ID (mm) | Wt (kg/m) | Grade            | Top (mKB) | Btm (mKB) |  |
| 1-1   | Compression              | 1               | -0.25      |            |         |           |                  | 6.25      | 6.00      |  |
| Comment<br>5,000 daN                          |                          |                 |            |            |         |           |                  |           |           |  |
| 1-2   | Tubing Hanger            | 1               | 0.24       | 179.4      | 114.3   |           |                  | 6.00      | 6.24      |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-3   | Crossover - Pin x<br>Pin | 1               | 0.96       | 127.0      |         | 26.790    | L-80             | 6.24      | 7.20      |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-4   | Crossover - Pin x<br>Box | 1               | 0.37       | 127.0      | 114.3   |           | L-80             | 7.20      | 7.57      |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-5   | Tubing Pup Joint         | 4               | 6.91       | 114.3      | 100.5   | 18.974    | L-80             | 7.57      | 14.48     |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-6   | Tubing Pup Joint         | 314             | 3,012.20   | 114.3      | 100.5   | 18.974    | L-80             | 14.48     | 3,026.68  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-7   | Tubing Pup Joint         | 1               | 3.06       | 114.3      | 100.5   | 18.974    | L-80             | 3,026.68  | 3,029.74  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-8   | Seal Assembly            | 1               | 0.30       | 114.3      |         |           |                  | 3,029.74  | 3,030.04  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-9   | Packer                   | 1               | 1.01       | 177.8      | 114.3   |           |                  | 3,030.04  | 3,031.05  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-10  | Tubing Pup Joint         | 1               | 2.82       | 114.3      | 100.5   | 18.751    |                  | 3,031.05  | 3,033.87  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-11  | Profile Nipple           | 1               | 0.47       | 114.3      | 96.9    |           |                  | 3,033.87  | 3,034.34  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-12  | Tubing Pup Joint         | 1               | 2.82       | 114.3      | 100.5   | 18.751    |                  | 3,034.34  | 3,037.16  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-13  | Profile Nipple           | 1               | 0.36       | 114.3      | 96.9    |           |                  | 3,037.16  | 3,037.52  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-14  | Crossover - Pin x<br>Box | 1               | 0.28       | 114.3      |         |           | L-80             | 3,037.52  | 3,037.80  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |
| 1-15  | Tubing Pup Joint         | 1               | 2.77       | 114.3      | 100.5   | 18.751    |                  | 3,037.80  | 3,040.57  |  |
| Comment                                       |                          |                 |            |            |         |           |                  |           |           |  |



BSS - QC/QA E.4  
02-23-09 - Rev 2

**INSTRUMENT CERTIFICATE OF CALIBRATION**

|                               |   |             |           |             |              |
|-------------------------------|---|-------------|-----------|-------------|--------------|
| CERTIFYING COMPANY:           | <b>BROGAN SAFETY SUPPLIES LTD</b><br>101 12002 101 AVE<br>GRANDE PRAIRIE, AB<br>T8V 8B1<br>(780) 539-9004   |             |           |             |              |
| CUSTOMER NAME & LOCATION:     | <b>BROGAN RENTAL #RKI G053</b>  |             |           |             |              |
| INSTRUMENT MAKE & MODEL       | RKI - GX 2012   |             |           |             |              |
| CALIBRATION GAS:              | LOT NUMBER: 2 - 131 - 102<br>H2S: 25 PPM - BALANCE WITH NITROGEN<br>LEL: 50% METHANE - BALANCE WITH AIR<br>O2: 18%<br>CO: 100PPM<br>%VOL: 99.9% METHANE - LOT #1 - 033 - 82 |             |           |             |              |
| INSTRUMENT SERIAL NUMBER:     | <b>923040521RN</b>  |             |           |             |              |
| READING PRIOR TO CALIBRATION: | <b>H2S</b>  | <b>%VOL</b> | <b>O2</b> | <b>%LEL</b> | <b>OTHER</b> |
|                               | N/A   | N/A         | N/A       | N/A         |              |
| MAXIMUM SPAN OF SENSOR:       | <b>H2S</b>  | <b>%VOL</b> | <b>O2</b> | <b>%LEL</b> | <b>OTHER</b> |
|                               | AUTO  | AUTO        | AUTO      | AUTO        |              |
| FINAL ADJUSTED SPAN:          | <b>H2S</b>  | <b>%VOL</b> | <b>O2</b> | <b>%LEL</b> | <b>OTHER</b> |
|                               | 25  | 100         | 20.9      | 50          |              |
| ALARM SETTINGS LOW/ HIGH      | <b>H2S</b>  | <b>%VOL</b> | <b>O2</b> | <b>%LEL</b> | <b>OTHER</b> |
|                               | 5/10  | N/A         | 19.5/23   | 5/10        |              |

|   |   |                  |   |
|---|---|------------------|---|
| ALARM POINTS VERIFIED - LOW ALARMS                      | x | PROBE            | x |
| ALARM POINTS VERIFIED - HIGH ALARMS                     | x | 110 VOLT CHARGER | x |
| CALIBRATION COMPLETED TO MANUFACTURER'S SPECIFICATIONS  | x | MANUAL           | x |
| CALIBRATION RECORDED IN BROGAN SAFETY DATABASE          | x | CAL SHEET        | x |
| INSTRUMENT THOROUGHLY CLEANED                           | x | BUMP TEST SHEET  | x |
| VISUAL INSPECTION COMPLETED                             | x | CASE             | x |
| UNIT ACCESSORIES RETURNED                               | x |                  |   |
| PERFORMED PUMP OPERATION TEST                           | x |                  |   |
| <b>SENSORS VERIFIED VIA BUMP TEST AFTER CALIBRATION</b> | x |                  |   |

DATE: August 19th, 2022

TECHNICIAN: Barb Wald

SIGNATURE:

**COMMENTS**

**\*\*CALIBRATED TO B.C. STANDARDS\*\***

RE-CALIBRATED MONITOR  
CLEANED MONITOR

