



NWT OFFICE OF THE REGULATOR OF OIL AND GAS OPERATIONS

Office of the Regulator of Oil and Gas Operations

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John Hawkins
Director, Asset Management
Paramount Resources Ltd.
SUITE 2800, 421 – 7 AVE SW
CALGARY AB T2P 4K9

October 5, 2022

Dear John Hawkins:

**Information Request No. 1:
Liard 2M-25 Well Abandonment (ACW-2022-PAR-2M-25-WID2008)**

On August 15, 2022, the Office of the Regulator of Oil and Gas Operations (OROGO) received a complete application to Alter the Condition of a Well (ACW) from Paramount Resources Ltd. (Paramount) for the abandonment of the Liard 2M-25 well (WID2008) in the Fort Liard area of the Northwest Territories.

OROGO has reviewed the information provided by Paramount in its original application and requires additional information to complete its review of Paramount's ACW application, as set out in the attached Information Request No. 1.

Please send your written responses and any associated correspondence to OROGO at oro.go@gov.nt.ca or through OROGO's secure file transfer site, on or before 4:00 pm on October 19, 2022. If you are unable to respond within this timeframe or have any questions, please contact OROGO at 867-767-9097 or by email at oro.go@gov.nt.ca.

Sincerely,

Pauline de Jong
Regulator

Encl. Information Request No. 1

Information Request No. 1
Liard 2M-25 Well Abandonment
ACW-2022-PAR-2M-25-WID2008

1.1 Level I Well

Preamble:

Page 1 of the abandonment program submitted on August 15, 2022, indicates that the Liard 2M-25 well produces a mixture of H₂S (0.5%) and CO₂ (20%). Section 2 of the *Well Suspension and Abandonment Guidelines and Interpretation Notes* (Guidelines) indicates that acid gas wells are Level I wells and defines acid gas wells as wells that produce any amount of H₂S and CO₂.

Section 6A of the Guidelines contains abandonment requirements for Level I wells which differ from the requirements for Level II wells. The abandonment program submitted on August 15, 2022, refers to the requirements for a Level II well.

Request:

Submit an updated well abandonment program that meets the requirements of the Guidelines for Level I wells.

1.2 Remedial Cement Squeezes

Preamble:

Step 16 of the abandonment program submitted on August 15, 2022, states “remedial squeezes as required”. No contingency steps for conducting remedial cement squeezes are provided.

If the program remains as submitted, and remedial cementing is required, Paramount would have to submit a revised well abandonment program and a request to vary its well approval before proceeding with remedial cementing. This may delay the well abandonment operation.

Request:

To avoid delays in the operation, submit an updated well abandonment program that includes contingency steps for remedial cement squeezes.

1.3 Abandoned Well Marker

Preamble:

The abandoned well marker diagram included with the abandonment program submitted on August 15, 2022, does not reflect the changes made in the revised *Well Suspension and Abandonment Guidelines and Interpretation Notes* (Guidelines), issued in May 2022.

Request:

Submit an updated abandonment program that includes the abandonment well marker requirements found in Section 6E of the May 2022 Guidelines.