



NWT OFFICE OF THE REGULATOR OF OIL AND GAS OPERATIONS

Office of the Regulator of Oil and Gas Operations

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Bill Peterson  
Senior Vice President, Development Operations  
Canadian Natural Resources Limited  
Suite 2100, 8800 – 2 ST SW  
CALGARY AB T2P 4J8

October 28, 2024

Dear Bill Peterson:

**Decision: Variation to OA-2018-005-CNRL**

On August 13, 2024, I issued a change of well status determination for the Liard P-16 well (WID1976), confirming its status as Abandoned. This is the final well abandonment included in Canadian Natural Resources Limited's Operations Authorization OA-2018-005-CNRL.

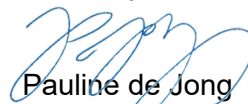
Section 64(2)(b) of the *Oil and Gas Operations Act* requires the Regulator to retain the proof of financial responsibility Canadian Natural Resources Limited (CNRL) submitted for OA-2018-005-CNRL for one year after the Regulator has notified the operator that all works associated with the Operations Authorization have been successfully abandoned or decommissioned. Therefore, I must retain CNRL's proof of financial responsibility until August 13, 2025.

OA-2018-005-CNRL currently expires on October 31, 2024. I am varying its end date to match the period of retention of proof of financial responsibility. This is an administrative variation only. CNRL is not required to take any action because of this variation.

The Regulator, designated under section 121 of the *Oil and Gas Operations Act* (OGOA), may issue an Operations Authorization under section 10(1)(b) of that Act. The Regulator may vary the terms of an Operations Authorization under section 10(6) of OGOA. On August 2, 2020, the Commissioner in Executive Council designated me as the Regulator under section 121 of OGOA.

Please retain a copy of the attached Operation Authorization for your files.

Sincerely,



Pauline de Jong  
Regulator

Encl. Operations Authorization OA-2018-005-CNRL variation 1

c. Ryan Munro, CNRL  
Terran Bernhard, CNRL

James Ireland, CNRL

## OPERATIONS AUTHORIZATION

Subject to the terms listed below, operations authorization **OA-2018-005-CNRL variation #1** is granted under Section 10 of the *Oil and Gas Operations Act* and Part 2 of the *Oil and Gas Drilling and Production Regulations* to


Company Name	Operating Licence #
Canadian Natural Resources Limited	NWT-OL-2014-001
Responsible Officer	
Bill Peterson, Senior Vice President, Development Operations	

for

Scope of Work	Region
Abandonment	Dehcho

This authorization, originally issued on November 26, 2019, has been varied by the Regulator or their delegate under Section 10(6) of the *Oil and Gas Operations Act*.

This authorization expires on **August 13, 2025**.

Issued at	Issued on
Yellowknife, Northwest Territories	October 28, 2024
Issued by	Signature
Pauline de Jong, Regulator	

## Additional Terms

1. Canadian Natural Resources Limited shall cause the approved work and activities to be conducted in accordance with the requirements of the *Oil and Gas Operations Act* and the *Oil and Gas Drilling and Production Regulations*, as well as any other acts or legislation as may apply.
2. Canadian Natural Resources Limited shall cause the approved work and activities to be conducted in accordance with any guidelines and/or interpretation notes issued by the Regulator under section 18 of the *Oil and Gas Operations Act*.
3. Canadian Natural Resources Limited shall cause the approved work and activities to be conducted in accordance with the specifications, standards and other information referred to in its application and subsequent submissions.
4. Canadian Natural Resources Limited shall request approval from the Chief Conservation Officer prior to undertaking any change to or deviation from the authorized work or activities, including but not limited to key personnel, the safety plan, the environmental protection plan and contingency plans.
5. Canadian Natural Resources Limited shall submit to OROGO an updated operator contact list for this program prior to any work or activity.
6. Canadian Natural Resources Limited shall provide all staff and contractors for this program with its Emergency Response Plan and the OROGO 24-hour Incident Reporting phone number (867-445-8551) prior to commencing any work or activity.
7. Pursuant to section 67 of the *Oil and Gas Drilling and Production Regulations*, Canadian Natural Resources Limited is approved to conduct controlled flaring utilizing separator packages and/or flare stacks as part of well kill operations at a maximum daily flow rate of  $30 \times 10^3 \text{m}^3/\text{day}$  and maximum daily duration of 4.0 hours per day. CNRL is also approved to conduct controlled venting of sweet gas as part of well kill operations at a maximum daily flow rate of  $900 \text{m}^3/\text{day}$  and maximum daily duration of 4.0 hours per day. CNRL shall include the volume and composition of any amount of flared and/or vented gas in its daily report to OROGO. Flaring and/or venting of any volume, daily volume rate and/or duration greater than the approved maximum daily flow shall be reported to OROGO as an incident under section 75 of the *Oil and Gas Drilling and Production Regulations*.
8. Canadian Natural Resources Limited shall submit to OROGO an updated Safety and Emergency Response Plan at least sixty (60) days prior to the start of any 24 hour operations schedule that describes potential hazards, risk evaluations and safety measures to avoid, prevent, reduce and manage safety risks associated with a 24 hour operations work schedule.

9. Canadian Natural Resources Limited shall submit to OROGO by noon (MDT) on January 9, 2020, completed applications to Alter the Condition of a Well (ACW) and supporting documentation for the abandonment of the following nine non-compliant wells, with the abandonments to be completed by April 1, 2021:
  - a. Arrowhead River J-74 (WID 1987)
  - b. Emile Lake A-77 (WID 1964)
  - c. SW Arrowhead M-35 (WID 1989)
  - d. Netla K-77 (WID 1862)
  - e. Arrowhead River I-75 (WID 1981)
  - f. Liard P-16 (WID 1976)
  - g. Arrowhead River K-35 (WID 1991)
  - h. Netla C-07 (WID 0191)
  - i. Arrowhead River O-38 (WID 1983)
10. In accordance with OROGO's *Well Suspension and Abandonment Guidelines and Interpretation Notes* (Guidelines), no industrial waste, including waste cement, is allowed to be disposed of at a suspended or abandoned well centre or surrounding area.
11. In accordance with the Department of Environment and Natural Resources *Guidelines for Disposal of Hazardous Waste*, any disposal of hazardous waste, including well bore fluids or contaminated water, outside of the NWT shall be done at a registered facility that is authorized to receive that waste.
12. Any planned discharge of fresh water from storage tanks utilized in well abandonment operations must comply with the approved Waste Management Plan as outlined in the conditions of Land Use Permit MV2019X0014 issued by the Mackenzie Valley Land and Water Board.