

### WELL APPROVAL

Subject to the terms listed below, a well approval 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	Company Operating Licence #
Canadian Natural Resources Limited	NWT-OL-2014-001
Responsible Officer and Title	
Ryan Munro, Manager, Abandonment Engineering	

to proceed with the works and activities described in its February 27, 2020 application and subsequent submissions for

Type of Work	Settlement Area or Region
Well abandonment	Dehcho
Scope of Work	
Abandonment of the Arrowhead River K-35 Well (WID1991)	

This approval, originally issued on July 6, 2020, is granted under Operations Authorization OA-2018-005-CNRL and has been varied by the Regulator or its delegate under Section 10 of the *Oil and Gas Operations Act*. It may be further so varied.

This approval expires on November 1, 2022.

Dated at Yellowknife, Northwest Territories on December 17, 2020.

Name of Regulator / Delegate	Signature of Regulator / Delegate
Ms. Pauline de Jong	
Title	
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 is granted an exception from section 6A, Downhole Abandonment Requirements of the *Well Suspension and Abandonment Guidelines and Interpretation Notes* to allow for the setting of a permanent bridge plug at a depth of 2,418 mKB in order to abandon the open hole section, as noted in Step 31 of the approved abandonment program.
4. 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 received February 27, 2020 and subsequent submissions.
5. Canadian Natural Resources Limited shall request approval from the Regulator 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, contingency plans and the approved abandonment program.
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. Canadian Natural Resources Limited shall notify OROGO at least 10 days prior to the start of well abandonment operations.
8. Canadian Natural Resources Limited shall submit to OROGO certificates and inspection documents for any service rig, well control and associated equipment (including boilers) at least 10 days prior to the rig commencing work.

9. Canadian Natural Resources Limited shall submit to OROGO an updated operator contact list for this program prior to any work or activity.
10. Canadian Natural Resources Limited shall submit to OROGO a completed Change of Well Status form and Well Termination Report 30 days after the service rig release date or when the operation has been successfully completed.
11. 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  $30 \times 10^3$  m<sup>3</sup>/day and maximum daily duration of 4.0 hours per day. Canadian Natural Resources Limited is also approved to conduct controlled venting of sweet gas as part of well kill operations at a maximum daily flow rate of 900 m<sup>3</sup>/day and maximum daily duration of 4.0 hours per day. Canadian Natural Resources Limited 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*.