



April 27, 2020

Janpeter Lennie-Misgeld  
Senior Advisor, Legislation and Policy  
Office of the Regulator of Oil and Gas Operations  
4th Floor, 5201-50 Avenue  
Yellowknife, NT  
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**RE: Information Request No.1:  
Application to Alter the Condition of a Well for the Abandonment of the  
Arrowhead River J-74 well (ACW-2019-014-CNRL-J-74-WID1987)**

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Dear Sir:

Canadian Natural Resources Limited (Canadian Natural) is responding to the Information Request letter dated March 27, 2020 from the Office of the Regulator of Oil and Gas Operations (OROGO) with the following information:

### **1.1 Detailed Operations Program**

**Request:** Please submit an updated abandonment program that provides sufficient detail to determine how CNRL proposes to:

- 1) Safely conduct pressure testing of pumping surface lines as stated in Step 17;
- 2) Kill the well as stated in Step 20;
- 3) Ensure that the internal surface of the casing is free of debris and/or scaling if a scraper run is NOT completed before installing the bridge plug as stated in Step 21;
- 4) Ensure compliance with Section 6A of the Guidelines which requires that the entire well bore must be filled with non-saline water; and
- 5) Prepare, introduce and circulate the cement when placing the required 15 metres of circulated cement as stated in Step 26.

**Response:** CNRL has updated the abandonment program with more concise; or additional verbiage to enhance or clarify the procedures / intentions of the program steps in question above.

**Canadian Natural Resources Limited**

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## Canadian Natural

If you have any questions, please contact the undersigned at [Ryan.N.Munro@cnrl.com](mailto:Ryan.N.Munro@cnrl.com); or at (403) 386-6538.

Yours truly,

**CANADIAN NATURAL RESOURCES LIMITED**

Ryan Munro, P.Eng.  
Manager, Abandonment Engineering