

June 21, 2024

7750-2800-32640-60

Stephen Penner, P.L.Eng.
Canadian Natural Resources Limited
Suite 2100, 885 – 2nd Street SW
Calgary, Alberta,
T2P 4J8

Dear Mr. Penner,

**RE: OBSERVATION WELL TESTING AMENDMENT
CNRL SEPTIMUS G5-23-81-19 (WA# 26299)
SEPTIMUS FIELD – CADOMIN-NIKANASSIN FORMATION**

The BC Energy Regulator (BCER) has reviewed a request from Canadian Natural Resources Limited (CNRL) dated June 10, 2024, seeking an amendment to the observation well approval for the subject well CNRL Septimus G5-23-81-19 (WA# 26299).

The Drilling and Production Regulation Part 1 defines an observation well as “a well or a portion of a well designated as an observation well under section 2 (7)”.

- 2 (7) An official may designate a well as an observation well if
- (a) the well is being used to monitor reservoir pressures or to obtain other formation information, and
 - (b) the well is not used to produce from, or inject or dispose of fluids into, a formation being monitored.

The subject well was drilled in 2010 and Order 10-02-008, approval for Saltwater Disposal, was issued December 8, 2010. The well was an active disposal well until October 2018 and a cumulative volume of 36,210 m³ was injected into the well. Reservoir pressure data collected from the subject well and the offset disposal well, CNRL HZ Septimus H5-23-81-19 (WA# 35457), indicates pressure communication between the wells. CNRL is requesting observation designation for CNRL Septimus G5-23-81-19 (WA# 26299) to monitor the reservoir pressure and gain a better understanding of pressure dissipation in the disposal formation. CNRL will install permanent downhole gauges to continuously monitor the reservoir pressure.

Approval of observation status is granted for CNRL Septimus G5-23-81-19 (WA# 26299), for the Cadomin-Nikanassin formation, with the following requirement:

- Continuously record the reservoir pressure in this well and submit one reservoir pressure report annually.
- submit a pressure test as TRGS submission type including a PDF and CSV raw data file.

Should you have any questions, please contact Terence Tkatchuk at (250) 980-6083 or the undersigned at (250) 419-4482.

Sincerely,



Michelle Gaucher, P.Eng.
Senior Reservoir Engineer
BC Energy Regulator