



NWT OFFICE OF THE REGULATOR OF OIL AND GAS OPERATIONS

Office of the Regulator of Oil and Gas Operations

P.O. Box 1320, Yellowknife, NT X1A 2L9

Tel: 867-767-9097 • Fax: 867-920-0798 • Web: www.oro.gov.nt.ca

Courier Address: 4th floor, 5201 – 50th Avenue, Yellowknife, NT X1A 3S9

Ken Nikiforuk, Operations Consultant
Strategic Oil & Gas Ltd.
C/O Alvarez & Marsal Canada ULC
SUITE 1100, 250 – 6 AVE SW
CALGARY AB T2P 3H7

August 26, 2022

Dear Ken Nikiforuk:

**Information Request No. 1:
Application to Abandon the Cameron M-74 Well (ACW-2022-SOG-M-74-WID2063)**

On August 9, 2022, the Office of the Regulator of Oil and Gas Operations (OROGO) received an application for the abandonment of the Cameron M-74 well (WID2063) from Strategic Oil & Gas Ltd. (Strategic).

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

Please send your written responses and any associated correspondence to OROGO at oro.gov.nt.ca or through OROGO's secure file transfer site, on or before 4:00 p.m. on September 20, 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.gov.nt.ca.

Sincerely,

Pauline de Jong
Regulator

Encl. Information Request No. 1

c. Duncan MacRae, Director, Alvarez & Marsal Canada ULC

Strategic Oil & Gas Ltd.

Application for an Authorization to Alter the Condition of a Well

Cameron M-74 Well (ACW-2022-SOG-M-74-WID2063)

Information Request No. 1

1.1 Protection of Potable Ground Water

Preamble:

Page 15 of the well abandonment application package submitted on August 9, 2022 indicates that:

- A cement bond log (CBL) will be run from 383 mKB to surface only during the proposed abandonment operation; and
- The 2010 CBL shows no cement between the base of the surface casing at 378 mKB and 403 mKB and “questionable” cement between 403 mKB and 530 mKB.

The proposed abandonment program does not include milling out the cement plug from 367 mKB to 383 mKB. Therefore, the CBL could only be run from 367 mKB to 0 mKB, entirely within the surface casing zone.

The March 5, 2015 well history also states there were no die or cement returns to surface during remedial cementing operations from 391-390 mKB.

Section 6B of the *Well Suspension and Abandonment Guidelines and Interpretation Notes* (Guidelines) requires ground water protection to extend to 600 meters below the surface if the operator cannot provide proof that non-saline groundwater is already isolated through the construction of the well.

Request:

Submit an updated well abandonment application package that:

- Demonstrates that non-saline groundwater is already isolated through the construction of the well; or
- Contains additional program steps necessary to complete a CBL over the full extent of the groundwater protection zone (600 meters below surface) to determine whether remedial cementing is required to protect non-saline groundwater.

If the additional program steps require removal of the cement and cement retainer between 367 and 391 mKB, consideration should be given to the potential for pressure build up behind those

barriers in the proposed program, in compliance with the OROGO Safety Bulletin for Shallow Wellbore Plugs.

1.2 Existing and Proposed Wellbore Diagrams

Preamble:

The well abandonment application package submitted on August 9, 2022 contains two identical wellbore diagrams:

- A “proposed well diagram” dated March 8, 2015; and
- A “proposed well diagram” dated August 2, 2022.

The label for the March 8, 2015 diagram appears to be an error. The proposed abandonment program and the August 2, 2022 diagram do not reflect the milling out of the cement above the cement retainer placed 383 mKB to conduct the CBL described on page 15 of the application package.

Request:

Submit updated wellbore diagrams (“Existing” and “Proposed”) that are correctly labelled and reflect the proposed program steps, including any additional program steps identified in response to Information Request 1.1 (above).

1.3 February 2022 Cement Bond Log

Preamble:

Page 7 of the well abandonment application package submitted on August 9, 2022 states that cement top was logged at 403 mKB on February 19, 2022.

OROGO does not have any record of a cement bond log run on February 19, 2022 and the evaluation of this CBL was not included in the application package.

Request:

Submit the February 19, 2022 CBL and evaluation or, if the statement on page 7 of the application package is an error, correct the error in the updated proposed abandonment program submitted in response to Information Request 1.1 (above).