



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.go.gov.nt.ca

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

Matt Crockett
Completions Engineering
Suncor Energy Inc.
P.O. Box 2844
150 – 6th Avenue S.W.
Calgary, Alberta T2P 3E3

October 17, 2022

Dear Matt Crockett:

Decision: Application for Well Approval ACW-2021-M-47-WID1476

On July 6, 2021, the Office of the Regulator of Oil and Gas Operations (OROGO) received a complete application from Suncor Energy Inc. (Suncor) to abandon the Tweed Lake M-47 well (WID1476).

OROGO also received Suncor's responses to information requests as follows:

Information Request No. 1 – received on October 20, 2021.

On October 7, 2022, the Regulator issued OA-2021-003-SUN, the Operations Authorization for the abandonment of three wells in the Sahtu Settlement Area, including the Tweed Lake M-47 well.

The Regulator designated under section 121 of the *Oil and Gas Operations Act* (OGOA) may issue a Well Approval under section 10(4) of that act. On August 2, 2020, the Commissioner in Executive Council designated me as the Regulator under section 121 of OGOA.

I have reviewed Suncor's description of its proposed activity and find that the application demonstrates that this activity will be conducted safely, without waste and without pollution, in compliance with the *Oil and Gas Drilling and Production Regulations*. Therefore, Suncor's application is approved, subject to the terms contained in the attached Well Approval.

.../2

Suncor must post a copy of the attached Well Approval in a clearly visible location at the work site.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Pauline de Jong', is written over the typed name.

Pauline de Jong
Regulator

Encl. ACW-2021-SUN-M-47-WID1476

c. Paul Carpentier, Suncor Energy Inc.

WELL APPROVAL


Subject to the terms listed below, well approval **ACW-2021-SUN-M-47-WID1476** 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 #
Suncor Energy Inc.	NWT-OL-2014-008
Responsible Officer	Operations Authorization #
Matt Crockett, Completions Engineer	OA-2021-003-SUN

for

Well Name and Well ID#	
Tweed Lake M-47 (WID1476)	
Type of Work	Region
Abandonment	Sahtu

This approval expires on **November 1, 2024**.

Issued at	Issued on
Yellowknife, Northwest Territories	October 17, 2022
Issued by	Signature
Pauline de Jong, Regulator	

Additional Terms

1. Suncor Energy Inc. 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. Suncor Energy Inc. 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. Suncor Energy Inc. shall cause the approved work and activities to be conducted in accordance with the specifications, standards and other information referred to in its application dated July 6, 2021, and subsequent submissions.
4. Suncor Energy Inc. 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 and contingency plans.
5. Pursuant to section 67 of the *Oil and Gas Drilling and Production Regulations*, Suncor Energy Inc. is approved to conduct controlled venting and/or flaring as part of well kill operations at a maximum daily flow rate of $29.93 \times 10^3 \text{ m}^3/\text{day}$ for a maximum daily duration of 4.0 hours per day. Suncor Energy Inc. 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*.
6. Suncor Energy Inc. shall notify the Regulator of each interval targeted for remedial cementing (Step 23-39) prior to perforation by sending an email to orogo@gov.nt.ca that includes the depth and anticipated time frame operations will occur. Following completion of each remedial cementing interval, Suncor Energy Inc. must include detailed results on the operations including feed rate and cement volume.
7. Upon completion of the remedial cementing, Suncor Energy Inc. shall notify OROGO and demonstrate, to the satisfaction of the Regulator, the location of the cement top prior to completing wellbore and surface abandonment. Notification must include the results and interpretation of the completed radial cement bond log as outlined in Steps 14 and 22 of the wellbore abandonment program.
8. At Step 43 of the wellbore abandonment program, Suncor Energy Inc. shall install an abandoned well marker compliant with section 6E of the *Well Suspension and Abandonment Guidelines and Interpretation Notes* (revised May 2022).
9. Suncor Energy Inc. 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.
10. Suncor Energy Inc. shall notify OROGO at least 10 days prior to the start of approved operations.

11. Suncor Energy Inc. 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.
12. Suncor Energy Inc. shall submit to OROGO an updated operator contact list for this program prior to any work or activity.
13. Suncor Energy Inc. shall submit to OROGO a Daily Report outlining all activities undertaken for each day of the operation under this well approval no later than 10:00 a.m. the following day.
14. Suncor Energy Inc. shall submit to OROGO a completed Change of Well Status form 30 days after the service rig release date or when the operation has been successfully completed.