



Northwest
Territories Office of the Regulator of Oil and Gas Operations

Mr. Reg Senyk
Production Engineering Team Leader – E&P
Suncor Energy Inc.
150 – 6TH AVE SW
CALGARY, ALBERTA T3A 2A2

JAN 14 2015

Dear Mr. Senyk:

Suncor Energy Inc. (Suncor) Application for a Two-Month Operations Authorization (OA) and an Approval to Alter the Condition of a Well (ACW) Regarding the Re-Suspension of the Tweed Lake M-47 Well
File Numbers: NWT-OA-2014-003 and NWT-ACW-2014-008

The Office of the Regulator of Oil and Gas Operations (OROGO) received Suncor's application for a two-month OA and an ACW regarding the re-suspension of the Tweed Lake M-47 well on December 3, 2014.

The Chief Conservation Officer (CCO) has:

- Accepted the Preliminary Screening Report prepared by the Sahtu Land and Water Board for the purpose of meeting the Regulator's obligations under section 124 of the *Mackenzie Valley Resource Management Act* with respect to the re-suspension activities.
- Accepted Suncor's proof of financial responsibility for the OA in accordance with subsection 64(1) of the *Oil and Gas Operations Act* (OGOA).
- Issued the requested OA pursuant to subsection 10(1) (b) of OGOA.

Please find attached the OA with terms and conditions and the ACW. The OA has an expiry date of March 14, 2015.

All oil and gas activities must meet the requirements of the *Oil and Gas Drilling and Production Regulations* (OGDPR), including the requirement to submit a well operations report within 30 days of the rig release date or when the re-suspension operation has finished.

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As you have previously been informed, OROGO is moving to a single incident reporting number effective January 26, 2015. The contact lists in Suncor's Spill Contingency Plan submitted with this application did not correctly list either of the two existing numbers. Please ensure that OROGO's 24/7 incident telephone number – 867-445-8551 – is listed as the number to contact OROGO in the event of an incident and that, in addition, the NWT-Nunavut 24-hour Spill Report Line number 867-920-8130 is listed as the number to call in the event of a reportable spill. The most current NT-NU Spill Report Form can be found on OROGO's website at www.oilandgasregulator.iti.gov.nt.ca/documents.

If you have any questions, please feel free to contact me at 867-920-6267 or by email at James.Fulford@gov.nt.ca.

Sincerely,

A handwritten signature in blue ink, appearing to read 'James Fulford', is written over a light blue circular stamp.

James Fulford
Chief Conservation Officer

Attachments

Attachment for NWT-OA-2014-003

**Terms and Conditions for the Suncor Energy Inc. (Suncor) Two-Month Operations Authorization (OA), Approval to Alter the Condition of a Well (ACW) and Associated Work and Activities
Tweed Lake, NWT**

1. Suncor shall cause the approved work and activities to be conducted in accordance with the specifications, standards and other information referred to in its application and subsequent submissions.
2. Unless otherwise directed by the Chief Conservation Officer, Suncor shall implement or cause to be implemented all of the policies, practices, mitigative measures, recommendations and procedures for the protection of the environment included in or referred to in Suncor's application and subsequent submissions and committed to by Suncor in the Sahtu Land and Water Board Preliminary Screening Report for Land Use Permit S14A-006 and Water Licence S14L1-004.
3. Suncor shall request approval from the Chief Conservation Officer 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.
4. Suncor shall notify OROGO by e-mail at orogo@gov.nt.ca prior to the start of well suspension operations.
5. Suncor shall submit to OROGO certificates and inspection documents for any service rig, well control and associated equipment seven days prior to that rig commencing work.
6. Suncor shall provide all staff and contractors for this program with the OROGO 24-hour Incident Reporting phone number (867-445-8551) prior to commencing any work or activity.
7. Suncor shall submit to OROGO an updated operator contact list for this program prior to any work or activity.
8. Suncor shall submit daily reports to OROGO by e-mail at orogo@gov.nt.ca for the suspension operation for the Suncor Tweed Lake M-47 well.



OPERATIONS AUTHORIZATION

APPLICATION

SUNCOR ENERGY INC.

(Name of Operator)

Hereby applies for authorization of a proposed:

Drilling Program
 Production Program
 Installation/Removal Program
 Other
 Please Specify: **Well Re-Suspension**

under section 10 of the *Oil and Gas Operations Act* and Part 2 of the *Oil and Gas Drilling and Production Regulations* using equipment and procedures described in the application.

Changes in equipment or procedures, outside the scope of this application, require the approval of the Regulator in order that this authorization remains valid. An approved copy of this notice is to be posted at each work site and is subject to the terms and conditions attached to this authorization.

Licence No. Significant Discovery Licence 024 WID# 1476 Operating Licence No. OL-2014-008
 Region NWT Mainland
 Field TWEED LAKE well location: Tweed Lake M-47
 Anticipated date of commencement January 2015 Proposed Duration 2 months

RESTORE WELL REGULATORY SUSPENSION COMPLIANCE:
 Re- Suspend Wellbore to Remove Existing Wellhead Tubing Pressure and Contain Pressure to Bottom of Wellbore

ACCESS: January 2015
 Construct 15 km winter access ice road from Colville Lake to Tweed Lake M-47 well location and winter lease construction at existing Tweed M-47 wellsite.

WELL RE-SUSPENSION: February 2015

Scope of Work
 Remove existing wireline plugs in prod'n tubing and install permanent wireline deployed plug in existing bottomhole packer tailpipe. Perforate prod'n tubing above packer and circulate out current oil based annular fluid to double walled tank at surface utilizing a methonal water based solution.
 Remove wellhead & install BOP's, and trip out tubing string. Install bridge plug in prod'n casing immediately above existing packer above completed Mount Clark zone & pressure test. Cap bridge plug with an 8m cement plug.
 Leave wellbore filled with non freezing methanol - water based solution. Remove BOP's and re-install wellhead & pressure test wellhead. Rig out service rig & haul away well intervention equipment and associated fluids. Clean-up lease.

Time of Commencement & Duration includes ice road/access build, well re-suspension activity at Tweed Lake M-47 wellsite with service rig, and clean-up.

I certify that the information provided on this form is true and correct

Name Reg Senyk, P. Eng. Telephone (403) 296-4523 Ext
 Job Designation Prod'n Eng Team Leader - E&P E-Mail rsenyk@suncor.com
 Signature  Date Nov 27 / 2014
Responsible Officer of Company



OPERATIONS AUTHORIZATION

OROGO AUTHORIZATION (OROGO Use Only)

The operator named above is hereby authorized under section 10 of the *Oil and Gas Operations Act* and is subject to the terms and conditions attached to this authorization.

Job Designation Chief Conservation Officer

Signature  Date Jan. 14, 2015
OROGO Authority

Operation Authorization (OA) No. NWT-OA-2014-003 Expiry Date Mar. 14, 2015

Instructions:

Send three copies of the completed form with original signatures, along with the appropriate supporting technical documentation, to:

Chief Conservation Officer, OROGO
Department of Industry, Tourism and Investment
Government of the Northwest Territories
P.O. Box 1320
Yellowknife NT X1A 2L9