



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 exisiting 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 rseyk@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 _____

Signature _____
OROGO Authority

Date _____

Operation Authorization (OA) No. _____

Expiry Date _____

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