



## APPROVAL TO DRILL A WELL

## APPLICATION

This application is submitted under Section 10 of the *Canada Oil and Gas Drilling and Production Regulations* (SOR/2009-0315). When granted under Section 13 of the Regulations, this form is the requisite approval for the commencement of well operations. An approved copy of this notice is to be posted at each drill site.

Well Name COPRC MIRROR LAKE P-20 Operator ConocoPhillips Canada Resources Corporation  
Well Type Exploratory Well If Other Type, please specify  
NEB Operating Licence No. 1211 Operations Authorization No. 0A-1211-002  
Drilling Rig or Unit Rig 2 Contractor Beaver Drilling  
Licence No. Exploration Licence 470 Estimated Well Cost \$23 mm to 28 mm  
Station Keeping Not Applicable Land Structure Conventional Land  
Land Use Permit No. SL13A-001 Issued by: Sahtu Land and Water Board 2013  
Water Licence No. SL13L1-004 Type B Issued by: Sahtu Land and Water Board 2013  
Location Unit P Section 20 Grid 65-00 126-45  
Coordinates (NAD 27) Surface Lat 64 ° 59 ' 58.0 " Long 126 ° 47 ' 8.7 "  
Bottom Hole Lat ° ' 0.0 " Long ° ' 0.0 "  
Region NWT Mainland  
Target Formation Canol Field/Pool /  
Well Path Horizontal Discovery Well  
Elevation KB/RT 289.3 Ground Level / Seafloor 283.3 m  
Approximate Spud Date Jan 28, 2014 Est. Days on Location 75 days  
Anticipated Total Depth 3200 m KB

## EVALUATION PROGRAM


Sample Type	Top to Bottom Interval (m KB)	Sample Interval (m)	Comments
Drill Cuttings	20-3200	5.0	From top of surface hole to total well depth
Logs and Tests	20-600	Other	Cased Hole GR/Neutron
Logs and Tests	600 -1950	Other	Open Hole GR/Neutron/Resistivity
Logs and Tests	600 -2098	Other	MWD/GR
Logs and Tests	2098-3200	Other	MWD/GR, LWD Resistivity

## CASING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)
508	78.45	Conductor	20
244.5	53.57	J-55	600
177.8	38.69	P-110	2098
114.3	17.26	P-110	1690 - 3200

Additional Information 114.3 mm tieback string will be run to surface after liner top clean out


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

Name Greg Gersib Telephone (403) 532 Ext 3527  
Job Designation VP CANADA EXPLORATION E-Mail greg.gersib@conocophillips.com  
Operator ConocoPhillips Canada  
Signature  Date Sept 11, 2013  
Responsible Officer of Company

## NATIONAL ENERGY BOARD APPROVAL

(Board Use Only)

This well approval is granted under section 13 of the *Canada Oil and Gas Drilling and Production Regulations* (SOR/2009-0315) and is subject to the terms and conditions attached to this approval and Operations Authorization No. 0A-1211-002

Job Designation Chief Conservation Officer Well Identifier 2081 Unique Well Identifier 300P206500126450  
Signature  Date 28 November 2013  
NEB Authority