



CANADA

Exploratory ☒
Development ☐

Delineation ☐
Service ☐

AUTHORITY TO DRILL A WELL

APPLICATION

This application is submitted with Section 82 of the Canada Oil and Gas Drilling Regulations. When approved under Section 83 of the Regulations, it is the requisite authority for the commencement of drilling operations.

Well Name in Full: RANGER ET AL LITTLE BEAR M-39
Operator: RANGER OIL LIMITED
Contractor: Shehtah Drilling Limited
Drilling Rig or Unit: Rig #1
Location-Unit: M. Section: 39
Coordinates: Lat: 64° 48' 58" Long: 126° 22' 22"
Area: Tulita (Fort Norman)
Elevation ~~M~~/KB: 258 (ASL)
Approx. Spud Date: February 5, 1998
Anticipated Total Depth: 2400
Drilling Program No.: --
Permit or Lease No.: EL-372
Estimated Well Cost: \$3,200,000
Grid Area: 64° 50', 126° 15'
Field/Pool: New Exploration
Seafloor: -- (BRT)
Estimated Days on Location: 35
Target Horizon(s): Upper Devonian Sands, Mount Kindle

EVALUATION PROGRAM

Ten-metre sample intervals: None
Five-metre sample intervals: Surface to Total Depth, 3 vials and 1 bagged
Canned sample intervals: None
Conventional cores at: Possible 18 m slimhole cores in Upper Devonian, Mt. Kindle
Logs and Tests: As per program

CASING AND CEMENTING PROGRAM

O.D.	Weight:	Grade:	Setting Depth Below Seafloor:	Cementing Program (Volumes):
339.7 mm	81.1 kg/m	K-55	150 m	Arctic set cement to surface
244.4 mm	53.6 kg/m	J-55	600 m	Arctic set cement 150 m to surface RFC cement 600 m to 150 m
139.7 mm	23.0 kg/m	K-55	2200 m	RFC cement 1400 m to 570 m
139.7 mm	25.3 kg/m	K-55	2400 m	RFC cement 2400 m to 1970 m

B.O.P. Equipment: 508 mm, 14 MPa, diverter system on 508 mm conductor pipe and 339 mm conductor casing
346 mm, 21 MPa, 2 pipe rams, 1 blind ram, annular preventor
Other Information: Gel chemical mud system on surface and main holes

Signed:
Date: December 12, 1997
Title: Drilling & Completions Superintendent
Company: Ranger Oil Limited

APPROVAL

An approved copy of this notice is to be posted at each wellsite.

Signed:
Date: Jan 21 / 98
File: 9211-R36-2-3..WID.1838
UWI 300M396450126150

Canada