



Nova Scotia	☐	West Coast	☐	Exploratory	☒
Newfoundland	☐	Northern	☒	Development	☐
Gulf of St. Lawrence	☐	Hudson Bay	☐	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: PCI ISLAND LAKE N-45
Operator: Petro-Canada Inc. Drilling Program No.: N/A
Contractor: Nabors Drilling Permit or Lease No.: E.L. 328 A
Drilling Rig or Unit: # 7 Estimated Well Cost: \$ 874,000.
Location-Unit: N Section: 45 Grid Area: 60° 10' 120° 45'
Coordinates: Lat: N 60° 4' 56.369" Long: W 120° 53' 33.675"
Area: Northwest Territories Field/Pool: N/A
Elevation-RT/KB: Approx. 609.9 m (ASL) Ground: 605.4 m (ASL)
Approx. Spud Date: February 16, 1990 Estimated Days on Location: 21 days
Anticipated Total Depth: 1495 m Target Horizon(s): Jean Marie (Gas)
UWI: 300N456010120450 Rundle (Oil)

EVALUATION PROGRAM

Ten-metre sample intervals NIL
Five-metre sample intervals 500 m to total depth
Canned sample intervals 500 m to total depth
Conventional cores at one 18 metre core once the Jean Marie formation is established
Logs and Tests penetration test after coring of the Jean Marie.
PI-SFL, CNL-LDT, BHCS, ML, Velocity Survey

CASING AND CEMENTING PROGRAM

O.D.	Weight:	Grade:	Setting Depth Below Seafloor:	Cementing Program (Volumes):
339.7mm	81.1 kg/m	K-55, ST&C	45 m	class "G" + 3% CaCl ₂
244.5mm	48.07 kg/m	H-40, ST&C	400 m	class "G" + 1% CaCl ₂
177.8mm	34.23 kg/m	K-55, ST&C	1495 m	T.D. - 1300 m 0:1:0 "G"
1300 - 750	0:1:4 "G"	750 - 500 m	0:1:0 "G"	500 m 0:1:0 "G" 500 - 0 0:1:4 "G"

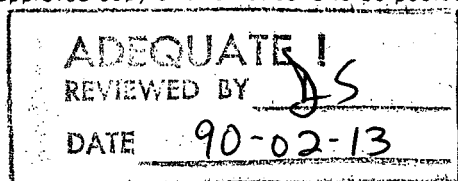
B.O.P. Equipment: 1 - 229mm, 21 Mpa Annular preventer
1 - 229mm, 21 Mpa Blind Ram 1 - 229mm, 21 Mpa Pipe Ram

Other Information: (Mud System)
0 - 400m gel-Lime mud
400 - 1495 m Gel/Chemical

Signed: J.L. Cotterill Title: Manager, Exploration Operations
Date: 1990-02-12 Company: Petro-Canada Inc.

APPROVAL

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



Signed: Engineering Branch
Date: 90-02-14
File: 9211-P28-6-1