



Canada Oil and Gas
Lands Administration

Administration du pétrole
et du gaz des terres du Canada

DA # 1320

EA # 229, ~~XXX~~

Nova Scotia
Newfoundland
Gulf of St. Lawrence

☐ West Coast
☐ Northern
☐ Hudson Bay

☐ 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: Northcor et al Liard F-25 A
Operator: Northcor Energy Ltd. Drilling Program No.:
Contractor: Peter Bawden Drilling Ltd. Permit or Lease No.: EA # 229 ~~XXXXX~~
Drilling Rig or Unit: # 33 Estimated Well Cost: \$ 1,500,000.00 * *
Location-Unit: F Section: 25 Grid Area: 60-30-123-30
Coordinates: Lat: 60° 24' 22.25" N Long: 123° 35' 07.58" W
Area: Ft. Liard (N.W.T.) Field/Pool: Liard Exploratory
Elevation-RT/KB: 723 m KB (ASL) Ground: 717m (BRT)
Approx. Spud Date: 86-08-05 Estimated Days on Location: 60
Anticipated Total Depth: 3250m Target Horizon(s): Nahanni

EVALUATION PROGRAM

Ten-metre sample intervals NA
Five-metre sample intervals 2080 to total depth
Canned sample intervals Every 10m 2080 to total depth
Conventional cores at No cores planned at this time
Logs and Tests See attached sheet

CASING AND CEMENTING PROGRAM

O.D.	Weight:	Grade:	Setting Depth KB	Cementing Program (Volumes):
762mm *	Conductor pipe		17m	to surface
508mm *	140 kg/m	H-40	196.45m	to surface
340mm *	90.77 kg/m	K-55	765m	to surface
244mm	64.74 kg/m	L-80	2885m +	350m above 244mm shoe w/ 13.3m ³
178mm	34.23, 38.69, 43.16 kg/m	L-80	3250m +	Into 244mm shoe w/ 6.15m ³

B.O.P. Equipment:

Other Information: * Previously set
** In addition to original F-25 \$ 13,500,000.00 Total \$ 15,000,000.00
+ Minimum additional cement will be used as logs & conditions dictate

Signed: (David V. Sells) Title: President
Date: August 19, 1986 Company: Northcor Energy Ltd.
(operating licence ~~XXXXXX~~ # 657)

APPROVAL

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

Signed: Engineering Branch
Date: 28 Aug 86
File: 9211-N10-6-1

Department of Energy,
Mines and Resources
Ministère de l'Énergie,
des Mines et des Ressources

Department of Indian Affairs
and Northern Development
Ministère des Affaires indiennes
et du Nord Canadien

Canada