



CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT  
OIL AND MINERAL DIVISION

**Application for a Drilling Authority**

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:—

Name and number of well ..... Aquit Alder YT C-33 .....

Location: Unit ..... C ..... Section ..... 33 ..... Grid 66° 00' N 136° 45' W  
 Latitude ..... 65° 52' 01.6" ..... Longitude ..... 136° 51' 54.7"  
 Unique Well Identifier ..... 300C336600136450 .....  
 Universal Well Location Reference ..... Latitude: 65.86711 ..... Longitude: 136.86519 .....

Elevation: Ground (Approx) 1,718' ..... K.B. (Approx) 1,755' ..... feet above sea-level.  
 Well is expected to produce from ..... Lower Hart River ..... formation at a depth  
 of about ..... 5,000 ..... feet. Expected total final depth 14,000'  
 Area assigned to well .....  
 (for District Conservation Engineer's use only)

Permit No. .... 6448 ..... Lease No. .... Acreage ..... 26,153 .....  
 Permittee, licensee, or lessee ..... Ladd Exploration Company .....  
 Exploratory Licence No. .... 2583 .....  
 Surface owned by Crown or ..... Crown .....  
 (If alienated submit name and address of owner and occupant.)

Petroleum and natural gas rights owned by ..... Ladd Exploration Company .....  
 We propose to use the following strings of casing, either cementing or landing them as indicated below:—

| Casing Size O.D. (Inches)      | Weight (Lb./Ft.) | Grade      | New or Used | Estimated Depth | Sacks of Cement    |
|--------------------------------|------------------|------------|-------------|-----------------|--------------------|
| 1. 30                          |                  |            | New         | 80'             | 460 Permafrost     |
| 2. 20                          | 94               | H-40       | New         | 500'            | 1,660 Permafrost   |
| 3. 13-3/8                      | 54.5             | K-55       | New         | 2,000'          | 810 Permafrost     |
| 4. 9-5/8                       | 40.0/43.5/47.0   | N-80       | New         | 8,000'          | 3,600 API Class G/ |
| 5. 7" (Liner)<br>(if required) | 26.0/29.0        | N-80/MN-80 | New         | 14,000'         | 990 API Class G/   |

Expected water, gas, and oil horizons and type of control equipment. Both the primary and secondary objectives (Lower Hart River: 4,600' - 5,600', Middle Devonian Carbonates: 10,300' - T.D.) are anticipated to be gas bearing. BOP stack equipped with bag type spherical preventor and three single Gate Preventers (1 blind ram, 2 pipe rams) - all 15,000 psi.  
 Well will be drilled with Rotary Rig No. .... 5 ..... by ..... Adeco Drilling & Engineering Co. Ltd. ....  
 (Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No. ....  
 At well ..... E. L. Duhn ..... At registered office ..... W. H. Sawotin .....  
 Address ..... on site ..... Address 540 - 5th Avenue S.W. T2P 0M4 .....  
 It is understood that if changes become necessary, notice of the change of plan will be submitted.  
 Dated at ..... Calgary ..... this ..... 10th ..... day of ..... February ..... 1978.  
 Signed by ..... W. H. Sawotin ..... Company Aquitaine Company of Canada Ltd.  
 Title ..... Drilling Superintendent ..... Operator's Licence No. 2583 .....

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:

..... A Velocity Survey to be run from surface casing to T.D. ....

Dated ..... March 2 / 78 ..... 19 .....  
 District Conservation Engineer

Forms to be submitted to District Conservation Engineer,  
 Department of Indian Affairs and Northern Development.