

O&G: 377
API: 36-009-00214

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
910 State Office Building Portland, OR 97201

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

(To be accompanied by a \$100 permit fee, a surety bond conditioned as provided by law, and evidence of mineral rights ownership or lease.) This application becomes a permit to drill when signed and dated by DOGAMI in box below.

In compliance with rules and regulations pursuant to ORS 520, application is hereby made for permit to drill

(a gas well) to be known as ARCO Oil and Gas Company Longview Fibre #11-31
(an oil well) (Company or operator) (Lease) (Well No.)

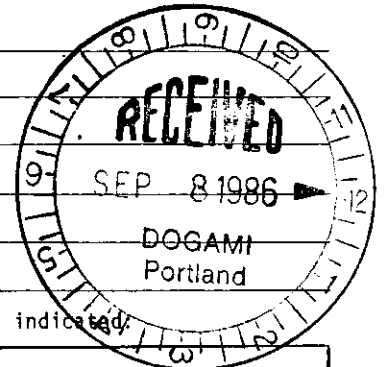
in NW 1/4 of Sec. 31, T. 6N, R. 4W W.B.&M. Directional? No X Yes
Survey Coordinates: 325' FWL & 850' FNL of NW Corner, Sec 31, T6N, R4W

Wildcat: X (or) Field Name: Mist County: Columbia
Elevation of ground above sea level is 900 feet. All depth measurements are taken from kelly bushing, which is ±10' above ground.

Lessor (Mineral Owner): Longview Fibre Company
Address: P. O. Box 667, Longview, Washington 98632

Surface Owner: Longview Fibre Company
Address: P. O. Box 667, Longview, Washington 98632

Lessee: Atlantic Richfield Company
Address: P. O. Box 147, Bakersfield, CA 93302



We propose to use the following strings of casing and to land or cement them as herein indicated:

Size of hole	Size of casing	Weight in pounds per foot	Grade/Type	Depth	Amount of cement
12-1/4"	9-5/8"	36#	K-55	450'	225 sx
8-1/2"	5-1/2"	17#	K-55	2300'	474 sx

Geologic Objectives Clark and Wilson at 1500'
Proposed Depth ±2300' TVD

Company/Operator ARCO Oil and Gas Company, Div. of Atlantic Richfield Company

Signature Kwang U. Park

Position District Drilling Superintendent

Date September 5th, 1986

SEND WELL COMMUNICATION TO:

Name Kwang U. Park

Address P. O. Box 147 Bakersfield, CA 93302

Phone 805-833-4060 (Day) 805-834-4826 (Night)

DOGAMI Approved October 6, 1986
The July 1986 stipulations approved by the State Geologist are conditions of this permit. Notify DOGAMI to witness BOP test.
By Dennis L. Olmstead
Dennis L. Olmstead, Petroleum Engineer

NOTE: (1) Issuance of this permit is not a finding of compliance with the Statewide Planning Goals or the acknowledged comprehensive plan. (2) Permit expires one year from date of issue. (3) Land use approval must be obtained from the county or city in which the drilling takes place. (4) Unless specifically exempted, permittee is obligated to comply with all current applicable statutes and rules including those adopted after permit issuance.