

O&G: 375
API: 36-009-00212

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 Atlantic Richfield Company Columbia County #31-8
(an oil well) (Company or operator) (Lease)

in NE 1/4 of Sec. 8, T. 6N, R. 5W W.B.&M. Directional? No XX res. XX

Survey Coordinates: 728' S & 1585' W from NE Corner Section 8 BHL: 807'S & 1706' W from NE corner 8 *Dew*

Wildcat: Yes (or) Field Name: Mist County: Columbia

Elevation of ground above sea level is 640 feet. All depth measurements are taken from kelly bushing, which is ±10' above ground.

Lessor (Mineral Owner): Columbia County Land Development Services/Planning Division

Address: Courthouse, St. Helens, OR 97051

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Surface Owner: Stinson Lumber

Address: P. O. Box 68, Forest Grove, OR 97116

AUG 1 1986

Lessee: Atlantic Richfield Company

DEPT. OF GEOLOGY & MINERAL INDUS

Address: P. O. Box 147, Bakersfield, CA 93302 (4201 Stine Road, Bakersfield 93309)

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
12-1/2"	9-5/8"	36#	K-55 STC	450'	220 sacks
8-1/2"	5-1/2"	17#	K-55 LTC	3200'	730 sacks

Geologic Objectives Clark and Wilson at 2500' TVD

Proposed Depth 3200' TVD

ARCO Oil and Gas Company

Company/Operator Div. of Atlantic Richfield Co.

Signature Kwang U. Park

Position Dist. Drilling Superintendent

Date July 29, 1986

SEND WELL COMMUNICATION TO:

Name Kwang U. Park

Address 4201 Stine Road

Bakersfield CA 93309

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

DOGAMI Approved August 28, 19 86

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.

R-LT
7/28/86