



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 #12-19-65  
 (an oil well) (Company or operator) (Lease) (Well No.)

in NW 1/4 of Sec. 19, T. 6N, R. 5W W.B.&M. Directional? No  Yes

Survey Coordinates: ~~900 FWL, 1600 ENL; 1824' S and 1263' E from NW cor.~~ ENE 1747' S and 1044' E from NW cor.  
~~for NW cor 1400's~~ (232' N 70° 43' W of surf. sec.)

Wildcat: yes (or) Field Name: Mist Gas Field County: Columbia

Elevation of ground above sea level is 875' feet. All depth measurements are taken from of surf. sec.

Kelly Bushing, which is +/- 10' above ground.

Lessor (Mineral Owner): Columbia County

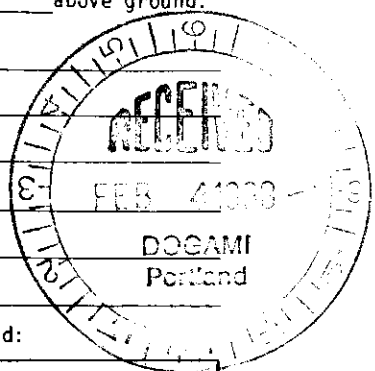
Address: Columbia County Courthouse, St. Helens, OR. 97051

Surface Owner: E.T. Johnston

Address: RR Box 113 Birkenfeld, OR 97016

Lessee: Atlantic Richfield

Address: 4550 California Ave. Bakersfield, CA 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
8 1/2"	7"	23#	K-55 STC	450'	105SX
6 1/4"	3 1/2"	9.2#	J-55 EUE	3300'	420 SX

Geologic Objectives CLARK & WILSON @ 2600'

Proposed Depth 3300'

ARCO OIL & GAS COMPANY

Company/Operator Div of Atlantic Richfield Co.

Signature Kwang U. Park

Position DISTRICT DRILLING SUPERINTENDENT *BBS 1/29/88*

Date January 29th, 1988

SEND WELL COMMUNICATION TO:

Name KWANG U. PARK

Address PO BOX 147

Bakersfield, CA 93309

Phone 805-321-4060 (Day) 805-834-4826 (Night)

DOGAMI Approved March 17, 1988  
 The July 1987 stipulations approved by the State Geologist are conditions of this permit. Notify DOGAMI to witness BOP test.  
 By Dennis L. Olmstead  
Dennis 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.