

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

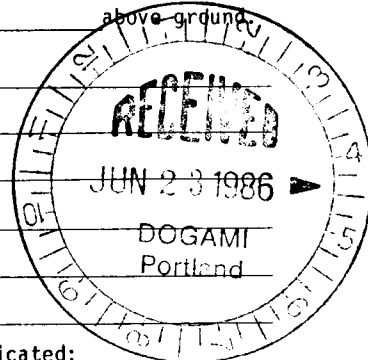
(To be accompanied by a \$100 permit fee, a surety bond conditioned as provided by law, and evidence of mineral rights ownership or lease.) This application becomes a permit to drill when signed and dated by DOGAMI in box below.

In compliance with rules and regulations pursuant to ORS 520, application is hereby made for permit to drill  
 Atlantic Cavenham Forest  
 (a gas well) to be known as Richfield Company Industries #41-4  
 (an oil well) (Company or operator) (Lease) (Well No.)

in NE 1/4 of Sec. 4, T. 5N, R. 4W W.B.&M. Directional? No X Yes  
 Survey Coordinates: 1020' S & 850' W of NE Corner, Sec. 4

Wildcat: X (or) Field Name: Mist County: Columbia  
 Elevation of ground above sea level is 880 feet. All depth measurements are taken from Kelley Bushing, which is ±10' <sup>above ground</sup>

Lessor (Mineral Owner): Cavenham Forest Industries, Inc.  
 Address: 1500 SW First Avenue, Portland, OR 97201  
 Surface Owner: Cavenham Forest Industries, Inc.  
 Address: 1500 SW First Avenue, Portland, OR 97201  
 Lessee: Atlantic Richfield Company  
 Address: 4201 Stine Road, 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
12-1/4	9-5/8	36	K-55	450'	225 sx
8-1/2	5-1/2	17	K-55	2400'	505 sx

Geologic Objectives Clark & Wilson at 2148'

Proposed Depth 2400' ARCO Oil and Gas Company  
 Company/Operator Div. of Atlantic Richfield Co.

*RBS 6/20/86* Signature Randy Thomas for KUP  
 Position District Drilling Superintendent

DOGAMI Approved July 18, 1986  
 The July 1986 stipulations approved by the State Geologist are conditions of this permit.  
 By Dennis Z Olmstead  
 Dennis Olmstead, Petroleum Engineer

Date \_\_\_\_\_  
 SEND WELL COMMUNICATION TO:  
 Name Kwang U. Park  
 Address 4201 Stine Road  
Bakersfield, CA 93309  
 Phone 805-833-4060 (Day) 805-834-4826 (Night)

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.