O&G: 422
API: 36-009-00251

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) ~~(exploratory)~~ to be known as ATLANTIC RICHFIELD (Company or operator) CAVENHAM ENERGY RESOURCES (Lease) 24-18-64 (Well No.)

in SW 1/4 of Sec. 18, T. 6N, R. 4W W.B.&M. Directional? No X Yes ____

Survey Coordinates: 1136' @N1° W & 2181' @ N89°E F/SW COR SEC 18

Wildcat: YES (or) Field Name: MIST GAS FIELD County: COLUMBIA

Elevation of ground above sea level is 635 feet. All depth measurements are taken from KELLY BUSHING, which is ±10 above ground.

Lessor (Mineral Owner): CAVENHAM ENERGY RESOURCES

Address: c/o Zilkha Energy Co., 1201 Louisiana St., Ste 3200, Houston, TX 77002-5223

Surface Owner: CAVENHAM FOREST INDUSTRIES

Address: P. O. Box 270, WINNFIELD, LA 71483

Lessee: ATLANTIC RICHFIELD COMPANY

Address: 4550 CALIFORNIA AVENUE, 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'	90 sx
6-1/4"	3-1/2"	9.3	J-55/EUE 8RD	1675'	365 sx

Geologic Objectives CLARK AND WILSON SANDS AT 1225'

Proposed Depth 1675'

Company/Operator ARCO OIL AND GAS COMPANY DIVISION OF ATLANTIC RICHFIELD COMPANY

Signature R. D. Watts for K. U. Park

Position DISTRICT DRILLING SUPERINTENDENT

Date MARCH 22, 1989

SEND WELL COMMUNICATION TO:

Name KWANG U. PARK

Address P. O. BOX 147

BAKERSFIELD, CA 93302

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

DOGAMI Approved April 17, 1989

The July 1987 stipulations approved by the State Geologist are conditions of this permit.

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.