

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 & Gas Company Oregon #21-33-86  
 (an oil well) (Company or operator) (Lease) (Well No.)

in NW 1/4 of Sec. 33, T. 8N, R. 6W W.B.&M. Directional? No X Yes

Survey Coordinates: South 1227.4' & East 1981.5' from NW Corner

Wildcat: Yes (or) Field Name: Wildcat County: Clatsop

Elevation of ground above sea level is 1325 feet. All depth measurements are taken from KB  
 \_\_\_\_\_, which is ±10' above ground.

Lessor (Mineral Owner): State of Oregon - Oregon Board of Forestry

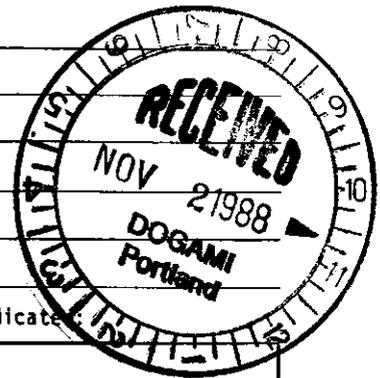
Address: Route 1, Box 950, Astoria, Oregon 97103

Surface Owner: Same as Mineral Owner

Address: \_\_\_\_\_

Lessee: ARCO Oil and Gas 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
12-1/4"	9-5/8"	36#	K-55/BTC	1,000	375 sx
6-1/4"	3-1/2"	9.3#	J-55/EUE	6,000	700 sx

Geologic Objectives Clark & Wilson sand @ 4,900'

Proposed Depth 6,000'

Company/Operator ARCO Oil & Gas Company

Signature Kwang U. Park

Position District Drilling Superintendent

Date October 26, 1988

SEND WELL COMMUNICATION TO:

Name Kwang U. Park

Address 4550 California Avenue

Bakersfield, CA 93309

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

DOGAMI Approved November 16, 1988

The 1987 July 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.