

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

1069 State Office Building Portland, Oregon 97201

APPLICATION FOR PERMIT TO DRILL AN OIL AND GAS WELL OR STRATIGRAPHIC HOLE
(To be accompanied by a \$100 permit fee for new wells only and a surety bond conditioned as provided by law.)

_____, Oregon April 18 1985

In compliance with rules and regulations pursuant to ORS 520 (Chapter 296 OL 1977) application is hereby made for permit to drill a (new well) ~~(stratigraphic hole)~~ to be known as ARCO Columbia County
(company or operator) (lease)

Well No. 23-19 in NE/SW of Sec. 19, T. 6 N, R. 5 W W.B.&M,
_____, Field, _____ County.

Survey Coordinates: 2558' North & 2096' East of SW Corner

Elevation of ground above sea level is 702.5 feet. All depth measurements are taken from top of KB, which is 11' above ground.

Lessee: County of Columbia Courthouse

Address: First Street, St. Helens, Oregon 97051

Lessor: Atlantic Richfield Company

Address: P. O. Box 5540, Denver, CO 80217

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 and type	New or second hand	Depth	Landed or cemented No. sacks cement
	16"	63	Line pipe	New	50'	50
12-1/4"	9-5/8"	36	J-55/STC	New	400'	250
8-3/4"	5-1/2"	17	J-55/LTC	New	3200'	1220

Proposed Depth: 3200' Objectives: Clark & Wilson Sand at ±2250'

Approved May 15, 19 85
except as follows:
The September 1984 stipulations approved by the State Geologist are conditions of this permit.
DEPT. OF GEOLOGY & MINERAL INDUSTRY
By William L. Perry Director
Petroleum Geologist

ARCO Exploration Company

company or operator
By K. U. Park
Position District Drilling Superintendent
Send communications regarding well to:
Name ARCO Oil and Gas Co., Div. of Atlantic Richfield Company
Address P. O. Box 147 Bakersfield, CA 93302

NOTE: This permit is valid only if land use approval is obtained from the county or city in which the drilling takes place, and provided these authorities make a determination of compliance with statewide goals.

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.