

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
1069 State Office Building Portland, Oregon 97201

NOV 15 1984

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 19____

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 ("CC") (company or operator) (lease)
Well No. 44-21 in SE/SE of Sec. 21, T. 6N, R. 5W W.B.&M,
Mist Gas Field, Columbia County.

Survey Coordinates: 250' North & 600' West from SE corner of Section 21,
T6N, R5W

Elevation of ground above sea level is 810.5 feet. All depth measurements are taken from top of KB, which is + 11 above ground.

Lessee: County of Columbia Courthouse *284 mineral owner*
Address: 1st Street, St. Helens, Oregon 97051
Lessor: Atlantic Richfield Company *243*
Address: Post Office Box 5540, Denver, Colorado 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
<i>Probably 16 csg</i>	<u>13-3/8"</u>	<u>48#</u>	<u>H40, STC</u>	<u>New</u>	<u>50</u>	<u>50</u>
<u>12 1/4"</u>	<u>9-5/8"</u>	<u>36#</u>	<u>J55, LTC</u>	<u>New</u>	<u>400</u>	<u>200</u>
<u>8-3/4"</u>	<u>5 1/2"</u>	<u>14#</u>	<u>J55, LTC</u>	<u>New</u>	<u>3500</u>	<u>500</u>

Proposed Depth: 3500' Objectives: Clark & Wilson Sand @ 1921'
& Clatskanie Sands @ 2671'

Approved December 6, 19 84
except as follows:
The January 1984 stipulations approved by the State Geologist are conditions of this permit.
DEPT. OF GEOLOGY & MINERAL INDUSTRY
By Petroleum Geologist

Atlantic Richfield Company *243*
company or operator
By D. J. Ruckel
Position District Drilling Superintendent
Send communications regarding well to: 1061
Name ARCO Oil and Gas Company
Attn: Drilling Department
Address Post Office Box 147
Bakersfield, California 93302

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

NOTE: Issuance of this permit is not a finding of compliance with the Statewide Planning Goals or the acknowledged comprehensive plan. Permit expires one year from date of issue.