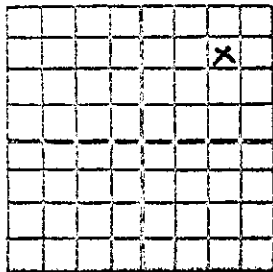


APPLICATION FOR PERMIT TO DRILL NEW WELL OR STRATIGRAPHIC HOLE
(To be accompanied by a \$100 permit fee for new wells only and a surety bond conditioned as provided by law.)
Bakersfield California April 11 19 79

Department of Geology and Mineral Industries
Portland, Oregon

In compliance with rules and regulations pursuant to ORS 520 (Chapter 667 OL 1953) application is hereby made for permit to drill

a (new well) to be known as: Reichhold Energy Corporation Columbia County
(stratigraphic hole) COMPANY OR OPERATOR LEASE
Well No. 4 in NE/4 of Sec. 15, T. 6N, R. 5W W. B. & M.,
Field, Columbia County.



Section of land
Area 640 acres

This well is 1000 feet ~~(N)~~ (S) of the North line and 1150 feet
(E)(W) of the East line of Section 15-6N-5W W.B. & M.

(Give location from section or other legal subdivision lines or corners. Cross out wrong directions)

Elevation of ground above sea level is 720 ± feet. All depth measurements are taken from
top of KB, which is 12 feet above ground.

The lessee is Reichhold Energy Corporation ⁽³²¹⁾

Address P.O. Box 1482, Tacoma, Washington 98401

The lessor is Columbia County ⁽²⁸⁹⁾

Address St Helens, Oregon

LOCATE WELL CORRECTLY

We estimate that the first productive oil or gas sand should occur at a depth of about 2400 feet.
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
9 7/8"	7"	20	K	N	300'	120 cu. ft.
6 1/4"	4 1/2"	10.5	K	N	2900'	330 cu. ft.

We propose to drill with ~~rotary~~ ^{rotary} tools.

If changes in the above plan become advisable we will notify you before cementing or landing casing.

Additional information including names of and expected depths to objective sands (Use additional sheets as needed):

2nd C & W Sands 2400-2900

I understand that this plan of work must receive approval in writing by the Director of the State Department of Geology and Mineral Industries.

Approved May 8, 1979
except as follows: The stipulations issued by the Governing Board on 2/27/79 apply to this permit.

DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES
By Almon C. Newton ^{Petrol Engr} Director

Reichhold Energy Corporation
COMPANY OR OPERATOR
By [Signature]
Position Engineer
Send communications regarding well to:
Name Robert L. Beardsley
Address P.O. Box 810
St. Helens, Oregon 97051