

APPLICATION FOR PERMIT TO DRILL NEW WELL OR STRATIGRAPHIC HOLE  
(To be accompanied by a \$25.00 permit fee for new wells only and a surety bond conditioned as provided by law.)

Portland Oregon March 24 1966

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: Butte Oil of Oregon, Inc. - C. S. Knudson  
(stratigraphic hole)  
Well No. Cowan No. 1 in NW 1/4 of Sec. 8, T. 1 S, R. 3 W W. B. & M.,  
South Forest Grove Area Field, Washington County.

This well is Appr. 950 feet (~~N~~) (S) of the North line and 2000 feet  
(E)(~~W~~) of the West line of Section 8

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

Elevation of ground above sea level is 160 feet. All depth measurements are taken from  
top of ---, which is --- feet above ground.

The lessee is Butte Oil of Oregon, Inc.

Address 226 N.E. Morgan, Portland, Oregon

The lessor is Russell A. Cowan

LOCATE WELL CORRECTLY Address Route 2, Box 479, Cornelius, Oregon

We estimate that the first productive oil or gas sand should occur at a depth of about \_\_\_\_\_ 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
8-3/4"	6" ID	17	American	New	300'-350'	50
6"	4 1/2" OD	16	American	New	300'-1000'	

We propose to drill with 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):

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

Butte Oil of Oregon, Inc.

COMPANY OR OPERATOR

Approved March 24, 19 66

except as follows:

None

DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES

Director

By August H. Groneman

Position President

Send communications regarding well to:

Name A. H. Groneman

Address 226 N.E. Morgan

Portland, Oregon

By Simon C. Newton (Submit in triplicate)