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SEP 10 1976  
DEPT OF GEOLOGY

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.)

Portland Oregon October 18 19 76

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: MICHEL T. HALBOUTY Federal  
(stratigraphic hole) COMPANY OR OPERATOR LEASE  
Well No. 1-10 in SE/4 SE/4 NE/4 of Sec. 10, T-23-S, R-29-E W. B. & M.,  
Field, Harney County.

This well is 2299 feet (N) (S) of the North line and 334 feet  
(E) (W) of the East line of Section 10, T-23-S, R-29-E

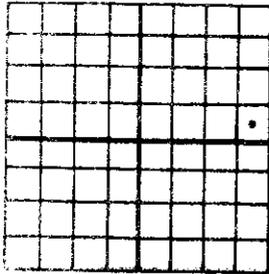
(Give location from section or other legal subdivision lines or corners. Cross out wrong directions)

Elevation of ground above sea level is 4761 feet. All depth measurements are taken from  
top of derrick floor, which is \* feet above ground.

The lessee is Standard Oil Co. of California

Address 320 Market St., San Francisco, Calif. 94104

The lessor is United States of America c/c BLM, P. O. Box 2965,  
Portland, Oregon 97208



Section of land  
Area 640 acres

LOCATE WELL CORRECTLY

We estimate that the first productive oil or gas sand should occur at a depth of about 7800' feet.

We propose to use the following strings of casing and to land or cement them as herein indicated:

\* Drilling contractor or rig is not known at present time.

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
30"	22"	94#/ft.	H-40 8 rd. th.	new	60'±	200 sacks
20"	16"	65#/ft.	H-40 8 rd. th.	new	400'±	650 sacks
14-3/4"	10-3/4"	40.5#/ft.	K-55 8 rd. th.	new	2500'±	1100 sacks
9-7/8"	7" or 7-5/8"	23# & 26#/ft.	N-80 8rd. th.	new	8000'±	From shoe to 500' above

We propose to drill with rotary tools cable 26.4# & 29.7#/ft. any possible productive zone

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):

Geologic Intervals  
0' - 2400' - Recent and Tertiary age  
2400' - 4500' - Clarno - Eocene age  
4500' - 7000' - Cretaceous age  
7000' - Total Depth - Jurassic - Triassic age  
(See attached drilling plan)

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

MICHEL T. HALBOUTY

COMPANY OR OPERATOR

By Doyle W. McClennen  
Position Doyle W. McClennen, General Superintendent

Send communications regarding well to:  
Name Michel T. Halbouty  
Address 5100 Westheimer, Suite 500  
Houston, Texas 77056

Attention: Mr. Doyle McClennen

(Submit in triplicate)

Approved October 18, 19 76  
except as follows: The Sept 2, 1975 stipulations of the State Dept of Enviro. Quality are a condition of this permit.  
DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES  
By \_\_\_\_\_ Director

Phone: 713 (622-1130)