

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

APPLICATION FOR PERMIT TO DRILL A GEOTHERMAL WELL
(To be accompanied by a \$100.00 permit fee for new wells only and a surety bond conditioned as provided by law.)

Santa Rosa, CA, ~~XXXXXX~~ May 12, 19 81
~~XXXXXX~~

In compliance with rules and regulations pursuant to ORS 522 (Chapter 552 OL 1975) application is hereby made

for permit to drill a geothermal well: UNION OIL COMPANY OF CALIFORNIA OR-14878
(company or operator) (lease)

Well No. 47-10 in NE/SE/SW of sec. 10 T. 19 S., R. 45 E. W. B. & M.,
(Vale Prospect) Field, Malheur County.

Survey Coordinates: 800' from South line and 2500' from West line of section.

Elevation of ground above sea level is 2785 feet. All depth measurements are taken from top
of Kelly Bushing, which is five feet above ground.

Lessee: UNION OIL COMPANY OF CALIFORNIA

Address: P. O. Box 6854, Santa Rosa, CA 95406

Lessor: United States Government - B.L.M.

Address: 729 N. E. Oregon Street, Portland OR 97208

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
17 1/2"	13 3/8"	61	K-55	New	20'±	To surface
12 1/4"	9 5/8"	40	K-55	New	120'±	To surface
8 3/4"	7"	26	K-55	New	1000'±	To surface
6 1/8"	2 7/8"	6.5	J-55	New	4000'±	Not CMT'D

Proposed Depth: 4000'± Objectives: Temperature Gradient Observation

Approved June 18, 19 81
except as follows: The October 1981 stipulations approved by the Governing Board of the Department will be made a condition of this permit.
DEPT. OF GEOLOGY & MINERAL INDUSTRY
By M. L. King Director
PETROLEUM GEOLOGIST

UNION OIL COMPANY OF CALIFORNIA
company or operator
By Henry T. Snow position
Its Attorney In Fact
Send communications regarding well to:
Name Linda M. Dudzic
Address Union Geothermal, P.O. Box 6854
Santa Rosa, CA 95406

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.