

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

1005 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.)

DATE 5-01-85

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: GEO Operator Corp. for GEO-Newberry Crater, Inc.
(company or operator) (lease) Newberry Flank

Well No. N-1 in _____ of sec. 25, T. 22 S, R. 12E W.B.&M.,
Newberry Field, Deschutes County.

Survey Coordinates 3500' west and 2450' north of the southeast corner of
Section 25.

Elevation of ground above sea level is 5850' (GR) feet. All depth measurements are taken from top of _____, which is _____ above ground.

Lessee GEO-Newberry Crater Inc./GEO Operator Corporation

Address 545 Middlefield Road, Suite 200, Menlo Park, CA 94025

Lessor Department of the Interior, Bureau of Land Management

Address 825 NE Multnomah St., Portland, Oregon 97208

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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
5 5/8"	4 1/2"	7.7# 10.7#	A- 20 53	NEW	surf to 400'	25 CU FT
3 7/8"	2 3/8"	6.4#	J-55	NEW	surf to 4000'	147 CU FT
	2 7/8"					CEMENT

Proposed Depth 4000' Objectives Obtaining core samples/temperature

Approved July 8, 19 85
except as follows:
The January 1984 stipulations approved by the State Geologist are conditions of this permit.

DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES
By Devin L. Hubbard
Petroleum Engineer

GEO Operator Corporation
company or operator
By Michael J. Cale Senior Environmental
position Coordinator
Send communications regarding well to:
Name Michael J. Cale
Address 2300 County Center Drive Suite 250
Santa Rosa, CA 95401

NOTE: This permit expires 180 days from date of issue. Land use approval must be obtained from the county or city in which the drilling takes place. Issuance of this permit is not a finding of compliance with the Statewide Planning Goals or the acknowledged comprehensive plan.