

STATE OF OREGON  
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

1005 State Office Building Portland, Oregon 97201

RECEIVED-PTLD  
MAR 13 1986  
DEPT. OF GEOLOGY

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 MARCH 4, 1986

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 CORPORATION NEWBERRY FLANK UNIT  
(company or operator) (lease)

Well No. N-2 in NE 1/4 of sec. 29, T. 21S, R. 12E W.B.&M.,

Field, Washburn County.

Survey Coordinates 2175' south and 1130' west of the northeast corner

Elevation of ground above sea level is 5835'+/- feet. All depth measurements are taken from top  
of GROUND LEVEL, which is \_\_\_\_\_ above ground.

Lessee GEO OPERATOR CORPORATION FOR GEO-NEWBERRY, INC.  
Address 1330 NORTH DUTTON AVENUE, SUITE A, SANTA ROSA, CA 95401

Lessor DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT  
Address 825 N.E. MULTNOMAH 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
5-5/8"	4-1/2"	10.7#	A-53	New	Surf to 4000'	25 Cu Ft
3-25/32"	1-1/2"	2.9#	J-55	New	Surf to 4000'	147 Cu Ft
						Shur-Gel

Proposed Depth 4000' Objectives Obtaining core samples and temperature logs.

Approved April 21, 19 86  
except as follows:  
The January 1984 stipulations approved by the State Geologist are conditions of this permit.

DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES  
By James J. Calkins  
Petroleum Engineer

GEO OPERATOR CORPORATION  
company or operator

By Michael J. Cale  
SENIOR ENVIRONMENTAL COORDINATOR position

Send communications regarding well to:  
Name MICHAEL J. CALE  
Address 1330 NORTH DUTTON AVENUE, SUITE A  
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.