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 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


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:

<table>
<thead>
<tr>
<th>Size of hole</th>
<th>Size of casing</th>
<th>Weight in pounds per foot</th>
<th>Grade and type</th>
<th>New or second hand</th>
<th>Depth</th>
<th>Landed or cemented</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-5/8&quot;</td>
<td>4-1/2&quot;</td>
<td>10.7#</td>
<td>A-53</td>
<td>New</td>
<td>4000'</td>
<td>25 Cu Ft</td>
</tr>
<tr>
<td>3-25/32&quot;</td>
<td>1-1/2&quot;</td>
<td>2.9#</td>
<td>J-55</td>
<td>New</td>
<td>4000'</td>
<td>147 Cu Ft</td>
</tr>
</tbody>
</table>

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

Approved April 21, 1986

GEO OPERATOR CORPORATION company or operator

Sent communications regarding well to:

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.