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.)

Deschutes County, Oregon 15 Aug., 1983

In compliance with rules and regulations pursuant to ORS 522 (Chapter 52 OL 1975) application is hereby made for permit to drill a geothermal well: OCCIDENTAL GEOTHERMAL, INC. (company or operator) (lease)

Well No. 76-34 in NE/4 of sec. 34, T. 21S., R. 12E., W. B. & M., Deschutes County, Oregon

Survey Coordinates: 4100' FWL & 1400 FSL, Section 34, T.21S., R.12E., W.B. & M.

Elevation of ground above sea level is 6400' feet. All depth measurements are taken from top of ground level, which is N/A above ground.

Lease: N/A Well to be drilled on unleased ground owned by

Address: U. S. Department of the Interior.

Lease:

Address:

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>6 1/2&quot;</td>
<td>5-1/2&quot;</td>
<td>14.0</td>
<td>K-55</td>
<td>New</td>
<td>Surface to 40'</td>
<td>to Surface</td>
</tr>
<tr>
<td>4.827&quot;</td>
<td>4-1/2&quot;</td>
<td>9.0</td>
<td>K-55</td>
<td>New</td>
<td>Surface to 300'</td>
<td>to Surface</td>
</tr>
<tr>
<td>3.782&quot;</td>
<td>3-1/2&quot;</td>
<td>7.7</td>
<td>K-55</td>
<td>New</td>
<td>Surface to 1500'</td>
<td>None</td>
</tr>
<tr>
<td>2.980&quot;</td>
<td>2-3/4&quot;</td>
<td>5.1</td>
<td>K-55</td>
<td>New</td>
<td>Surface to 3000'</td>
<td>None</td>
</tr>
</tbody>
</table>

Proposed Depth: 3000'

Objectives: Evaluate the down hole stratigraphy and collect temperature information.

Approved: September 13, 1983

except as follows: The January 1983 stipulations approved by the Governing Board of this Department are conditions of this permit.

DEPT. OF GEOLOGY & MINERAL INDUSTRY.

By: Petroleum Engineer

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 rules.