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.)

Department of Geology and Mineral Industries
Portland, Oregon 97201

In compliance with rules and regulations pursuant to ORS 522 (Chapter 776 OL 1971) application is hereby made for permit to drill

a (new well / replacement well): Union Oil Company of California


This well is 660 feet (N) of the South line and 1980 feet (E) of the East line of Sec. 30.

The lessee is Union Oil Company of California

The lessor is Brooks Scanlon, Inc.

LOCATE WELL CORRECTLY

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 No. socks cement</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
<td>10-3/4&quot;</td>
<td>28.04</td>
<td>ASTM-A-120</td>
<td>Used</td>
<td>100'</td>
<td>CMT w/ 13 sx</td>
</tr>
<tr>
<td>10&quot;</td>
<td>8-5/8&quot;</td>
<td>22.36</td>
<td>ASTM-A-120</td>
<td>Used</td>
<td>As needed</td>
<td>CMT as needed</td>
</tr>
<tr>
<td>6&quot; or 1½&quot;</td>
<td></td>
<td>2.3 or 2.7</td>
<td>L-50, T&amp;C</td>
<td>New</td>
<td>1000'</td>
<td>Backfilled w/ cuttings</td>
</tr>
</tbody>
</table>

Method of drilling: rotary X, cable ___, other ___.

Proposed objectives:

Temperature observation (not intended for production)

TD 1000'

Approval: May 1, 1979

DEPT. OF GEOLOGY & MINERAL INDUS,
By ____________________________ Director

Union Oil Company of California

By ____________________________ Geologist

Send communications regarding well to:

Name: Mr. Steven J. Maione
Address: P.O. Box 7600
Los Angeles, California 90051

(Submit in triplicate)