APPLICATION FOR PERMIT TO DRILL A GEOTHERMAL WELL OR PROSPECT WELL

(To be accompanied by a $25.00 permit fee for new wells only and a surety bond conditioned as provided by law.)

Eugene, Oregon  June 6, 1972

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

<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>This well is 660 feet (N) of the South line and 660 feet</td>
</tr>
<tr>
<td></td>
<td>(W) of the East line of Sec. 32.</td>
</tr>
<tr>
<td></td>
<td>(Give location from section or other legal subdivision lines or corners; cross out wrong directions.)</td>
</tr>
<tr>
<td></td>
<td>Elevation of ground above sea level is 4800 feet. All depth measurements are taken from top of ______, which is ______ feet above ground.</td>
</tr>
<tr>
<td></td>
<td>The lessee is US Forest Service - Exploration Permit</td>
</tr>
<tr>
<td></td>
<td>Address WILLAMETTE FOREST - Mckenzie District</td>
</tr>
<tr>
<td></td>
<td>The lessor is ________</td>
</tr>
</tbody>
</table>

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>13 3/4&quot;</td>
<td>10 3/4&quot;</td>
<td>32.75</td>
<td>F</td>
<td>N</td>
<td>200</td>
<td>80 yard around shoe</td>
</tr>
<tr>
<td>8 1/2&quot;</td>
<td>7&quot;</td>
<td>17.00</td>
<td>F</td>
<td>N</td>
<td>1000</td>
<td>95 yard around shoe</td>
</tr>
</tbody>
</table>

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

Proposed objectives:

1. Drill 2000' temperature gradient hole.
2. Run and cement steel tubing to bottom.
3. Monitor temperature for 1 year.

Eugene Water & Electric Co.

By Keith Potts, General Mgr.

Send communications regarding well to:

Name Keith Potts, General Mgr.
Address P.O. Box 10148
Eugene, Ore. 97440

(Approve except as follows:)

DEPT. OF GEOLOGY & MINERAL INDUS.
By Director

(Submit in triplicate)
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.)

Eugene, Oregon June 6, 1979

In compliance with rules and regulations pursuant to OHS 522 (Chapter 552 OL 1975) application is hereby made
for permit to drill a geothermal well: Eugene Water & Electric Board
(Santiam Pass)

Well No. 1 in SE of sec. 32 T. 13S R. 7E WM W. B. & M.,
Field, Linn County.

Survey Coordinates: This well is approximately 660 feet north of the south line and
660 feet west of the east line of section 32

Elevation of ground above sea level is 4,800 feet. All depth measurements are taken from top
of , which is feet above ground.

Lessee: U. S. Forest Service - Exploration Permit
Address: Willamette Forest - McKenzie District

Lessor:
Address:

We propose to use the following strings of casing and to land or cement them as herein indicated:

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<th>Size of casing</th>
<th>Weight in pounds per foot</th>
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<th>New or second hand</th>
<th>Depth</th>
<th>Landed or cemented No. of sacks around shoe</th>
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</tr>
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Proposed Depth: 2,000 feet
Objectives: 1. Drill 2,000' temp. gradient
hole. 2. Run and cement steel tubing to bottom. 3. Monitor temp. for one year.

Approved July 3, 1979

Stipulations approved by the Governing Board of the Department will be made a condition of this permit.

DEPT. OF GEOLOGY & MINERAL INDUSTRY

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.

Eugene, Oregon 97440