STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
800 NE Oregon Street #28, Portland OR 97232

O&G Permit #: 36-009-00357

API#: 539

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

(To be accompanied by a $250 permit fee, a surety bond conditioned as provided by law, and evidence of mineral rights ownership or lease.) This application becomes a permit to drill when signed and dated by DOGAMI in box below.

In compliance with rules and regulations pursuant to ORS 520, application is hereby made for permit to drill a gas well (an oil well) to be known as: TW 43a-22-NW

Wildcat: (or Field Name: Calvin Creek-Schliecker Pool

Elevation of ground above sea level: 755 feet.

All depth measurements are taken from Kelly Bushing which is 18' above ground.

Lessor (Mineral Owner): Longview Fibre Co.
Address: P.O. Box 667 Longview, WA 98630

Surface Owner: Longview Fibre Co.
Address: P.O. Box 667 Longview, WA 98630

Lessees: Northwest Natural Gas Company
Address: 220 Northwest Second Ave. Portland, OR 97209

We propose to use the following strings of casings 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/Type</th>
<th>Depth</th>
<th>Amount of Cement</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-1/2&quot;</td>
<td>13-3/8&quot;</td>
<td>54.50#</td>
<td>H-40</td>
<td>400 feet</td>
<td>300 sx</td>
</tr>
<tr>
<td>12-1/4&quot;</td>
<td>8 5/8&quot;</td>
<td>32#</td>
<td>J-55</td>
<td>1950 feet</td>
<td>700 sx</td>
</tr>
</tbody>
</table>

Geologic Objectives: Clark and Wilson Sand
Proposed Depth: 2450' MD 1475' TVD

Company/Operator: NW Natural

DOGAMI approved (date)

See Attached: Conditions for Approval

by:

[Signature]

Position: Construction Manager
Date: July 8, 2002

SEND WELL COMMUNICATION TO:

Name: Todd A. Thomas
Address: 220 Northwest 2nd Ave.
Portland, OR 97209
Phone: (day) 503/226-4211 ext. 4686 (night) 503/848-2947

Mined Land Restoration

RECEIVED JU 16 2002

permitapp.doc: 7/8/2002