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

WELL SUMMARY REPORT
(In compliance with rules and regulations pursuant to ORS 520)

NW Natural
(Company or Operator)
Northwest Natural Gas
(Lease)
IW 23a-22-65
(Well No.)

Sec. 22 T. 6N R. 5W Surveyed Coordinates (if directional, BHL & SHL):
SHL: N03°03'15"E 2280.65' &
S86°56'45"E 1923.76' from the SW corner of section 22, T6N, R5W; BHL: 375.37' S & 730.41' E from surface location

Wildcat: Calvin Creek Storage Field
(or Field Name)
County: Columbia

Date: 2/10/98
Position: Storage Development Engineer

<table>
<thead>
<tr>
<th>Size of hole</th>
<th>Size of casing</th>
<th>Wt. in lbs. per ft.</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>48#/ft</td>
<td>H-40</td>
<td>355'</td>
<td>269 sx</td>
</tr>
<tr>
<td>12 7/8&quot;</td>
<td>8 5/8&quot;</td>
<td>32#/ft</td>
<td>J-55</td>
<td>1394'</td>
<td>460 sx</td>
</tr>
</tbody>
</table>

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Geological Marker | Depth
Keasey          | 644' MD
Cowltz          | 1140' MD
Clark & Wilson  | 1394' MD

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Perforations or Liner

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>From</th>
<th>To</th>
<th>Shots/ft.</th>
<th>Method of</th>
<th>Perforating</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 1/4&quot;</td>
<td>1359'</td>
<td>1470'</td>
<td></td>
<td>Jet</td>
<td>X</td>
</tr>
</tbody>
</table>

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Initial Production

<table>
<thead>
<tr>
<th>Date</th>
<th>Clean Oil bbl/day</th>
<th>Gravity</th>
<th>Percent Water</th>
<th>F.T.P.</th>
<th>F.C.P.</th>
<th>S.I.T.P.</th>
<th>S.I.C.P.</th>
</tr>
</thead>
</table>

wellsumm.doc 2/11/98