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 Northwest Natural Gas OM 32-22-65  
(Company or Operator) (Lease) (Well No.)

Sec. 22  T. 6N  R. 3W  
Surveyed Coordinates (if directional, BHL & SHL):  
SHL: 188 4 04' South &  
1261.26' East from the NE Corner of Section 22, T6N, R5W, WB & M. BHL: 330.55' S & 452.33' W from surface location

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

Date: 12/4/98  
Position: Storage Development Engineer

Commenced drilling: 7/15/98  
Completed drilling: 7/21/98  
P&A:  
Total depth: MD 2365' TVD 2274'  
Redrill depth:  
Logs run: Platform Express Neutron Density, BHC Sonic, Induction/SP, Formation Micro Image

<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>12 7/8''</td>
<td>8 5/8''</td>
<td>24#/ft</td>
<td>J-55</td>
<td>425'</td>
<td>192 sx</td>
</tr>
<tr>
<td>7 7/8''</td>
<td>5 1/2''</td>
<td>15.5#/ft</td>
<td>J-55</td>
<td>2315'</td>
<td>330 sx</td>
</tr>
</tbody>
</table>

Geological Marker  
Keasey 695' MD  
Cowlitz 1422' MD  
Clark & Wilson 1715' MD

Plugs  
None

Junk  
None

Perforations or Liner

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>From</th>
<th>To</th>
<th>Shots/ft.</th>
<th>Method of Perforating</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 1/2''</td>
<td>1717'</td>
<td>2017'</td>
<td>1 shot/ft</td>
<td>Jet</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bullet</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Slotted Line</td>
</tr>
</tbody>
</table>

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 12/4/98