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 IW 22H-22-65
(Company or Operator) (Lease) (Well No.)

Sec. 22 T. 6N R. 5W Surveyed Coordinates (if directional, BHL & SHL): SHL: N03°03'15"E 2291.54' &
S86°56'45"E 1907.87' from the SW corner of section 22, T6N, R5W; BHL: 695.1'N & 648.91'E from surface location

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

Date: 2/20/98 Position: Storage Development Engineer

Signature:

Commenced drilling: 10/14/97 Completed drilling: 11/13/97 P&A: yes

Total depth: MD 1825' TVD 1285' Redrill depth:

Logs run: DIL, GR, SP, FDCN, Sonic, CET

<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>332'</td>
<td>216 sq</td>
</tr>
<tr>
<td>12 1/4&quot;</td>
<td>8 5/8&quot;</td>
<td>32#/ft</td>
<td>J-55</td>
<td>1764'</td>
<td>1016 cu. ft.</td>
</tr>
</tbody>
</table>

Geological Marker | Depth
---|---
Keasey | 652' MD
Cowlitz | 1298' MD
Clark & Wilson | 1767' MD

Plugs | Cement plug 0' 495' t/surface | Geological Marker | Depth
---|---|---|---
Baker packer, 4 jis of 4 1/2' drill pipe | Clark & Wilson | 1767' MD
Inside 8 5/8" casing 0' 635' t/498'

Perforations or Liner | Method of Perforating
---|---

Initial Production

Date | Clean Oil Bbl/day | Gravity | Percent Water | F.T.P. | F.C.P. | S.I.T.P. | S.I.C.P.
---|---|---|---|---|---|---|---
1997

wellsumm.doc 2/20/98