2 Taylor Drilling Co. commenced moving in Elg No. 4.  
7 Squatted in at 2:20 P.M. with a 7 7/8" bit and drilled ahead.  
237' Gray clay and silt stone.  
410' Clay  
2. Clay  
8 Ran 2 2/3" casing equipped with a guide shoe and cemented around 4 7/8" ID with 300.88 lb's of Class 1 cement mixed with 330 Gal. No cement returns at surface. Cement in place at 2:00 P.M.  
9 Back out bad tubing joint and installed 6" series 900 screw in casing head. Installed BOP equipment and tacked pipe rams and Aprill with 400 psi. Gage question of complete shut off with BOP gear. Test allowable and approved by Mr. Vern Newman of D G C A M I Commercial drilling with 150 psi.  
10 Drilled out shoe with 6 1/4" bit and drilled ahead.  
1,370' Clay and silt clay  
11 Clay and silt clay  
12 Clay and silt clay  
12 Drilled out and circulated conditioned hole for tester. Ran halfburton tester which failed to go to bottom. Pulled tester.  
13 Ran 6 1/8" bit and cleaned out to 323' 7 Circulated and conditioned mud.  

SPT No. 1. Ran Wellburton tester with no cushion and set 2000' lbs. at 2:30 and 1500 lbs. with till to 237'. Opened tool for 30 6-8 A.M. on 3/4" bottom and 6 7/8" surface and 5 1/2" surface. Average density 1.15. Rate cemented at 530 M.D. per 1/2 of 12 inch. Cleaned for final run in pressure and 400 psi. "OPENED FOR FLAME on 1/4" surface. Place at 7:15 A.M. Rate stabilized at 324.4CFM with 355 6-8 A.M. and 50 psi. Opened for final closer to 340 C.F.M. Pulled BOPs at 7:40 A.M. Recovered 15 of drilling fluid with a 850 lb's of cement.  

-1-  

Retchedfield Energy Corporation  
Well Columbia County No. 4  
APl No. 36-009-22001  
Section 15-BN-SW, W.B.A.M.  
Columbia County, Oregon  
May 1959  

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Pressure (psi)</th>
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<th>Bottom Chart 1980*</th>
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Office readings  

Run 6 1/8" bit and conditioned hole and mud and drilled ahead.  

2516  
Sand and siltstone  

14 2925  
Sand and basalt  

15 2925  
Ran Relax Induction-electric log from 2925’ to 401’.  
Ran Relax Cessation Acoustic Velocity Log from 2925’ to 401’.  
Ran 6 1/8” M.W.W. Meter.  
Ran 6 1/8” bit and drilled ahead.  

2930  

16 Laid down drill pipe and drill collars.  
Ran 45 joints or 2474.10’ of 4 5/8” K-55 9-5/8” casing equipped with 2x joint.  
Had 600 lbs on 2x joint with 1200 lbs on 2x joint cement.  
Used button rubber plug and displaced top plug with 320 f.t. of water which was 7 f.c. over calculated displacement.  
Ran plug with 1500 psi which was held for 3 min. Slope off and check back.  

Casing Details:  

- Slop -  
- 77.29  
- 60 joints  
- 3236.96  
- On Hook  
- 2474.02  
- Above KB  
- 1.02  
- 2473.00  

Installed slips and packing  
Installed taping speed with secondary seal and tested seal with 700 psi.  
Re-installed BOP equipment.  
Primed up 2 3/4” tubing.  

Wells treated with 1 11/16” perforated jet gun and located casing collars.  
Shoe 6 1/8” below the knee in the lateral 2313.250’.  

Recovered water from casing and taping with nitrogen.  
Blow well to clean up.  

Flowed well as follows:  

<table>
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<tr>
<th>Choke</th>
<th>Casing Pressure (psi)</th>
<th>Est. Rate (gpm)</th>
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<td>1000</td>
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<tr>
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<tr>
<td>12/44</td>
<td>720</td>
<td>1000</td>
</tr>
</tbody>
</table>

Well test in twillite pipeline connection.  

-1-