

Company R. K. Teichgraeber Oil Operations Lease & Well No. #1 Cummings  
 Elevation 1223 Ground Level Formation Base Kansas City Elective Pay -- Ft. Ticket No. 13847  
 Date 2/19/83 Sec. 22 Twp. 29S Range 9E County Elk State Kansas  
 Test Approved by Dennis E. Hedke Western Representative Allen Edgington

Formation Test No. 1 Interval Tested from 1741 ft. to 1757 ft. Total Depth 1765 ft.  
 Packer Depth 1736 ft. Size 5-1/2 in. Packer Depth 1757 ft. Size 5-1/2 in.  
 Packer Depth 1741 ft. Size 5-1/2 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1747 ft. Recorder Number 5666 Cap. 3950  
 Bottom Recorder Depth (Outside) 1750 ft. Recorder Number 3474 Cap. 3000  
 Below Straddle Recorder Depth 1762 ft. Recorder Number 1564 Cap. 6600

Drilling Contractor Edco Drlg. Rig #1 Drill Collar Length 227 I. D. 2 in.  
 Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.  
 Weight 9.0 Water Loss - cc. Drill Pipe Length 1519 I. D. 2.7 in.  
 Chlorides - P.P.M. Test Tool Length 22 ft. Tool Size 4-1/20Dn.  
 Jars: Make - Serial Number - Anchor Length 16 ft. Size 4-1/20Dh.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 6-1/4 in. Tool Joint Size 3-1/2IF in.

Blow: Very weak and intermitten throughout test.

Recovered 10 ft. of drilling mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 1:00 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 3:00 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 90°  
 Initial Hydrostatic Pressure ..... (A) 855 P.S.I.  
 Initial Flow Period ..... Minutes 15 (B) 28 P.S.I. to (C) 32 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 577 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 43 P.S.I. to (F) 45 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 544 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 819 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 2/19/83 Test Ticket No. 13847  
 Recorder No. 5666 Capacity 3950 Location 1747 Ft.  
 Clock No. --- Elevation 1223 Ground Level Well Temperature 90 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>855</u> P.S.I.	Open Tool	<u>1:00A</u> M	
B First Initial Flow Pressure	<u>28</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>32</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>577</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>43</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>45</u> P.S.I.			
G Final Closed-in Pressure	<u>544</u> P.S.I.			
H Final Hydrostatic Mud	<u>819</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 3 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Initial Shut-In**  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

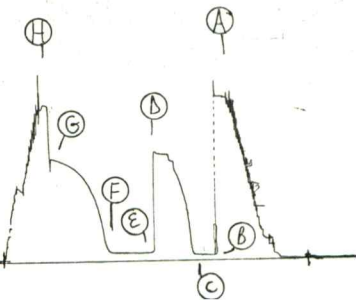
**Final Shut-In**  
 Breakdown: 15 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>28</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>45</u>
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>133</u>	<u>5</u>	<u>43</u>	<u>3</u>	<u>55</u>
P 3 <u>10</u>	<u>30</u>	<u>6</u>	<u>304</u>	<u>10</u>	<u>43</u>	<u>6</u>	<u>120</u>
P 4 <u>15</u>	<u>32</u>	<u>9</u>	<u>388</u>	<u>15</u>	<u>44</u>	<u>9</u>	<u>237</u>
P 5		<u>12</u>	<u>450</u>	<u>20</u>	<u>45</u>	<u>12</u>	<u>316</u>
P 6		<u>15</u>	<u>525</u>	<u>25</u>	<u>45</u>	<u>15</u>	<u>365</u>
P 7		<u>18</u>	<u>561</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>409</u>
P 8		<u>21</u>	<u>562</u>			<u>21</u>	<u>445</u>
P 9		<u>24</u>	<u>564</u>			<u>24</u>	<u>467</u>
P10		<u>27</u>	<u>569</u>			<u>27</u>	<u>486</u>
P11		<u>30</u>	<u>577</u>			<u>30</u>	<u>502</u>
P12						<u>33</u>	<u>515</u>
P13						<u>36</u>	<u>525</u>
P14						<u>39</u>	<u>534</u>
P15						<u>42</u>	<u>539</u>
P16						<u>45</u>	<u>544</u>
P17							
P18							
P19							
P20							

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Below Straddle

