

Company Range Oil Company, Inc. Lease & Well No. #1 "A" Gibson  
 Elevation 1218 Kelly Bushing Formation Cattleman Effective Pay -- Ft. Ticket No. 17807  
 Date 2/28/83 Sec. 21 Twp. 29S Range 4E County Butler State Kansas  
 Test Approved by Jim H. Lauer Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 2723 ft. to 2753 ft. Total Depth 2753 ft.  
 Packer Depth 2723 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 2718 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2726 ft. Recorder Number 2605 Cap. 4150  
 Bottom Recorder Depth (Outside) 2730 ft. Recorder Number 1049 Cap. 4250  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor RDC Drlg. Rig #2 Drill Collar Length 300 I. D. - in.  
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 9.8 Water Loss 10.4 cc. Drill Pipe Length - I. D. - in.  
 Chlorides 2,800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.  
 Jars: Make -- Serial Number - Anchor Length 30 ft. Size 5 1/2 in.  
 Did Well Flow? -- Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Very weak throughout test.

Recovered 10 ft. of mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s) --- A.M. P.M. Time Started Off Bottom -- A.M. P.M. Maximum Temperature 108°  
 Initial Hydrostatic Pressure     (A) 1392 P.S.I.  
 Initial Flow Period     Minutes 30 (B) 34 P.S.I. to (C) 34 P.S.I.  
 Initial Closed In Period     Minutes 30 (D) 519 P.S.I.  
 Final Flow Period     Minutes 60 (E) 34 P.S.I. to (F) 34 P.S.I.  
 Final Closed In Period     Minutes 66 (G) 788 P.S.I.  
 Final Hydrostatic Pressure     (H) 1352 P.S.I.

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

Date 2/28/83  
 Recorder No. 2605 Capacity 4150 Test Ticket No. 17807  
 Clock No. - Elevation 1218 Kelly Bushing Location 2726 Ft.  
 Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1392</u>	P.S.I.	-	M
B First Initial Flow Pressure	<u>34</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>34</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>519</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>34</u>	P.S.I.	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>34</u>	P.S.I.		
G Final Closed-in Pressure	<u>788</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1352</u>	P.S.I.		

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 6 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: 12 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 22 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>34</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>34</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>40</u>
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>36</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>49</u>
P 4 <u>15</u>	<u>34</u>	<u>9</u>	<u>45</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>61</u>
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>65</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>82</u>
P 6 <u>25</u>	<u>34</u>	<u>15</u>	<u>121</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>114</u>
P 7 <u>30</u>	<u>34</u>	<u>18</u>	<u>224</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>165</u>
P 8 _____		<u>21</u>	<u>316</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>231</u>
P 9 _____		<u>24</u>	<u>407</u>	<u>40</u>	<u>34</u>	<u>24</u>	<u>294</u>
P10 _____		<u>27</u>	<u>475</u>	<u>45</u>	<u>34</u>	<u>27</u>	<u>352</u>
P11 _____		<u>30</u>	<u>519</u>	<u>50</u>	<u>34</u>	<u>30</u>	<u>398</u>
P12 _____				<u>55</u>	<u>34</u>	<u>33</u>	<u>468</u>
P13 _____				<u>60</u>	<u>34</u>	<u>36</u>	<u>512</u>
P14 _____						<u>39</u>	<u>552</u>
P15 _____						<u>42</u>	<u>593</u>
P16 _____						<u>45</u>	<u>628</u>
P17 _____						<u>48</u>	<u>658</u>
P18 _____						<u>51</u>	<u>688</u>
P19 _____						<u>54</u>	<u>709</u>
P20 _____						<u>57</u>	<u>732</u>
						<u>60</u>	<u>750</u>
						<u>63</u>	<u>771</u>
						<u>66</u>	<u>788</u>

TKT # 17807

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