



P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Range Oil Company, Inc. Lease & Well No. Meadows "B" #2
Elevation 1212 Kelly Bush. Formation Admire Effective Pay - Ft. Ticket No. 136
Date 2-17-78 Sec. 22 Twp. 33S Range 4E County Cowley State Kansas
Test Approved by Robert R. Olsen Western Representative Sam McClune

Formation Test No. 1 Interval Tested from 650 ft. to 750 ft. Total Depth 750 ft.
Packer Depth 645 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 650 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 743 ft. Recorder Number 3085 Cap. 4500
Bottom Recorder Depth (Outside) 746 ft. Recorder Number 1558 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Oil Company Drill Collar Length 250 I. D. 2.25 in.
Mud Type Chem Viscosity 50 Weight Pipe Length 480 I. D. 2.7 in.
Weight 9.5 Water Loss - cc. Drill Pipe Length 20 I. D. 3.8 in.
Chlorides 400 P.P.M. Test Tool Size 4 1/2 OD in. Tool Joint Size 3 1/2 IF in.
Jars: Make - Serial Number - Anchor Length 100 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Weak to very weak on initial flow period. Strong to weak on final flow period.

Recovered 75 ft. of drilling mud.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 3:38 ~~AM~~ P.M. Time Started Off Bottom 6:10 ~~AM~~ P.M. Maximum Temperature 68
Initial Hydrostatic Pressure (A) 327 P.S.I.
Initial Flow Period Minutes 30 (B) 74 P.S.I. to (C) 41 P.S.I.
Initial Closed In Period Minutes 30 (D) 234 P.S.I.
Final Flow Period Minutes 45 (E) 86 P.S.I. to (F) 57 P.S.I.
Final Closed In Period Minutes 45 (G) 268 P.S.I.
Final Hydrostatic Pressure (H) 323 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 2-17-78 Test Ticket No. 136
 Recorder No. 3085 Capacity 4500 Location 743 Ft.
 Clock No. - Elevation 1212 Kelly Bushing Well Temperature 68 °F

Point	Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	327 P.S.I.	6:10P	M
B	First Initial Flow Pressure	74 P.S.I.	30 Mins.	30 Mins.
C	First Final Flow Pressure	41 P.S.I.	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	234 P.S.I.	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	86 P.S.I.	45 Mins.	45 Mins.
F	Second Final Flow Pressure	57 P.S.I.		
G	Final Closed-in Pressure	268 P.S.I.		
H	Final Hydrostatic Mud	323 P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	74	0	41	0	86	0	57	0
P 2	45	3	48	3	62	3	67	3
P 3	41	6	62	6	57	6	79	6
P 4	41	9	88	9	57	9	108	9
P 5	41	12	120	12	57	12	131	12
P 6	41	15	153	15	57	15	155	15
P 7	41	18	177	18	57	18	174	18
P 8		21	198	21	57	21	191	21
P 9		24	215	24	57	24	208	24
P10		27	227	27	57	27	220	27
P11		30	234	30		30	229	30
P12						33	237	33
P13						36	244	36
P14						39	249	39
P15						42	251	42
P16						45	268	45
P17								
P18								
P19								
P20								

TKT# 136
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2085



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 WICHITA, KANSAS 67201

Company Range Oil Company, Inc. Lease & Well No. Meadows "B" #2
 Elevation 1212 Kelly Bush. Formation Layton Effective Pay - Ft. Ticket No. 178
 Date 2-20-78 Sec. 22 Twp. 33S Range 4E County Cowley State Kansas
 Test Approved by Robert R. Olsen Western Representative Tim Wilson

Formation Test No. 2 Interval Tested from 2478 ft. to 2490 ft. Total Depth 2490 ft.
 Packer Depth 2473 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2478 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2483 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 2486 ft. Recorder Number 1561 Cap. 3200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Co. (#1) Drill Collar Length 125 I. D. 2 1/4 in.
 Mud Type Chem Viscosity 45 Weight Pipe Length 317 I. D. 2.7 in.
 Weight 9.4 Water Loss NC cc. Drill Pipe Length 2016 I. D. 3.8 in.
 Chlorides 1,200 P.P.M. Test Tool Size 4 1/2 in. Tool Joint Size 3 1/2 IF in.
 Jars: Make - Serial Number - Anchor Length 12 ft. Size 4 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in.

Blow: Weak blow increasing to a fair blow throughout test.

Recovered 500 ft. of total fluied recovery
 Recovered 200 ft. of slightly muddy water
 Recovered 300 ft. of water
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:12 ~~PM~~ ^{A.M.} Time Started Off Bottom 8:30 ~~PM~~ ^{A.M.} Maximum Temperature 103
 Initial Hydrostatic Pressure (A) 1207 P.S.I.
 Initial Flow Period Minutes 30 (B) 75 P.S.I. to (C) 117 P.S.I.
 Initial Closed In Period Minutes 30 (D) 760 P.S.I.
 Final Flow Period Minutes 60 (E) 162 P.S.I. to (F) 237 P.S.I.
 Final Closed In Period Minutes 60 (G) 788 P.S.I.
 Final Hydrostatic Pressure (H) 1175 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 2-20-78

Test Ticket No. 178

Recorder No. 1559 Capacity 4200

Location 2483 Ft.

Clock No. - Elevation 1212 Kelly Bushing

Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1207</u> P.S.I.	Open Tool	<u>5:12A</u> M	
B First Initial Flow Pressure	<u>75</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>117</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>760</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>65</u> Mins.
E Second Initial Flow Pressure	<u>162</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>237</u> P.S.I.			
G Final Closed-in Pressure	<u>788</u> P.S.I.			
H Final Hydrostatic Mud	<u>1175</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>13</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>22</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> <u>75</u>	<u>0</u> <u>117</u>	<u>0</u> <u>162</u>	<u>0</u> <u>237</u>			
P 2	<u>5</u> <u>67</u>	<u>3</u> <u>474</u>	<u>5</u> <u>148</u>	<u>3</u> <u>547</u>			
P 3	<u>10</u> <u>73</u>	<u>6</u> <u>596</u>	<u>10</u> <u>151</u>	<u>6</u> <u>621</u>			
P 4	<u>15</u> <u>84</u>	<u>9</u> <u>648</u>	<u>15</u> <u>160</u>	<u>9</u> <u>658</u>			
P 5	<u>20</u> <u>97</u>	<u>12</u> <u>682</u>	<u>20</u> <u>171</u>	<u>12</u> <u>683</u>			
P 6	<u>25</u> <u>107</u>	<u>15</u> <u>705</u>	<u>25</u> <u>182</u>	<u>15</u> <u>702</u>			
P 7	<u>30</u> <u>117</u>	<u>18</u> <u>723</u>	<u>30</u> <u>196</u>	<u>18</u> <u>716</u>			
P 8	<u> </u> <u> </u>	<u>21</u> <u>735</u>	<u>35</u> <u>205</u>	<u>21</u> <u>728</u>			
P 9	<u> </u> <u> </u>	<u>24</u> <u>744</u>	<u>40</u> <u>211</u>	<u>24</u> <u>737</u>			
P10	<u> </u> <u> </u>	<u>27</u> <u>757</u>	<u>45</u> <u>220</u>	<u>27</u> <u>745</u>			
P11	<u> </u> <u> </u>	<u>30</u> <u>760</u>	<u>50</u> <u>224</u>	<u>30</u> <u>752</u>			
P12	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>55</u> <u>228</u>	<u>33</u> <u>758</u>			
P13	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>60</u> <u>233</u>	<u>36</u> <u>762</u>			
P14	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>65</u> <u>237</u>	<u>39</u> <u>766</u>			
P15	<u> </u> <u> </u>	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>42</u> <u>769</u>			
P16	<u> </u> <u> </u>	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>45</u> <u>771</u>			
P17	<u> </u> <u> </u>	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>48</u> <u>774</u>			
P18	<u> </u> <u> </u>	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>51</u> <u>777</u>			
P19	<u> </u> <u> </u>	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>54</u> <u>781</u>			
P20	<u> </u> <u> </u>	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>57</u> <u>783</u>			
				<u>60</u> <u>785</u>			
				<u>63</u> <u>787</u>			
				<u>66</u> <u>788</u>			

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