



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Range Oil Company, Inc. Lease & Well No. Maddix #3
Elevation 1264 Kelly Bush. Formation Admire Effective Pay - Ft. Ticket No. 22663
Date 12-6-77 Sec. 10 Twp. 33S Range 5E County Cowley State Kansas
Test Approved by Robert Olsen Western Representative Norman Allen
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 590' to 650' Total Depth 650'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 585 Ft. Size 6 3/4 Bottom Packer Depth 590 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 60 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 616 Ft. Clock No. 8474 Depth 619 Ft. Clock No. 6896
Top Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Inside Bottom Make Kuster Cap. 3150 No. 1564 ~~Outside~~ Inside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ~~Inside~~ Inside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ~~Outside~~ Outside
Time Set Packer 9:55P M
Tool Open I.F.P. From 10:00 M. to 11:00 M. - Hr. 60 Min. From (B) 50 P.S.I. To (C) 39 P.S.I.
Tool Closed I.C.I.P. From 11:00 M. to 11:30 M. - Hr. 30 Min (D) 220 P.S.I.
Tool Open F.F.P. From 11:30 M. to 12:00 M. - Hr. 30 Min. From (E) 61 P.S.I. To (F) 42 P.S.I.
Tool Closed F.C.I.P. From 12:00 M. to 12:45 A.M. - Hr. 45 Min. (G) 223 P.S.I.
Initial Hydrostatic Pressure (A) 275 P.S.I. Final Hydrostatic Pressure (H) 265 P.S.I. Maximum Temp. 76

INFORMATION

BLOW Weak increasing to strong at end of test. Gas to surface in 20 minutes. See attached
sheet for gas measurements.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. Fluid recovery - 65' gas cut drilling mud

Reversed Out ☐ Yes ☒ No Mud Type Gel Viscosity 40 Weight 9.2 Water Loss ☐ cc. Chlorides ☐

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size ☐ In. Make ☐ Ser. No. ☐

Dual Packer ☒ Yes Did Packers Hold? ☒ Yes Did Tool Plug? ☐ No Where? ☐

DRILLING CONTRACTOR Range Driling Co., Length Drill Pipe? 50 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 310 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 250 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 80 Ft.

Remarks:

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GAS FLOW REPORT

Date 12-6-77 Ticket 22663 Company Range Oil Company, Inc.
Well Name and No. Maddix #3 Dst No. 1 Interval Tested 590' - 650'
County Cowley State Kansas Sec. 10 Twp. 33S Rg. 5E

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
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PRE FLOW

10:25PM	25 min.	10" of water	¼" orifice	5,320 C.F.P.D. Gas
10:30PM	30 min.	15" of water	¼" orifice	6,550 C.F.P.D. Gas
10:40PM	40 min.	25" of water	¼" orifice	8,300 C.F.P.D. Gas
10:50PM	50 min.	changed choke to ½"		
11:00PM	60 min.	13" of water	½" orifice	22,800 C.F.P.D. Gas
Gas to Surface	10:20 PM			

SECOND FLOW

[illegible]

GAS BOTTLE

Serial No. 615 Date Bottle Filled 12-6-77 Date to be Invoiced 12-6-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Range Oil Company, Inc.

Authorized by Robert Olsen

WESTERN TESTING CO., INC.

Pressure Data

Date 12-6-77 Test Ticket No. 22663
 Recorder No. 3085 Capacity 4500 Location 616 Ft.
 Clock No. 8474 Elevation 1264 Kelly Bushing Well Temperature 76 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>275</u>	P.S.I.	<u>9:55P</u>	<u>M</u>
B First Initial Flow Pressure	<u>50</u>	P.S.I.	<u>60</u>	<u>55</u>
C First Final Flow Pressure	<u>39</u>	P.S.I.	<u>30</u>	<u>39</u>
D Initial Closed-in Pressure	<u>220</u>	P.S.I.	<u>30</u>	<u>30</u>
E Second Initial Flow Pressure	<u>61</u>	P.S.I.	<u>45</u>	<u>45</u>
F Second Final Flow Pressure	<u>42</u>	P.S.I.		
G Final Closed-in Pressure	<u>223</u>	P.S.I.		
H Final Hydrostatic Mud	<u>265</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>11</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>50</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>42</u>
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>165</u>	<u>5</u>	<u>43</u>	<u>3</u>	<u>163</u>
P 3 <u>10</u>	<u>26</u>	<u>6</u>	<u>194</u>	<u>10</u>	<u>43</u>	<u>6</u>	<u>186</u>
P 4 <u>15</u>	<u>26</u>	<u>9</u>	<u>204</u>	<u>15</u>	<u>42</u>	<u>9</u>	<u>197</u>
P 5 <u>20</u>	<u>26</u>	<u>12</u>	<u>211</u>	<u>20</u>	<u>42</u>	<u>12</u>	<u>203</u>
P 6 <u>25</u>	<u>26</u>	<u>15</u>	<u>214</u>	<u>25</u>	<u>42</u>	<u>15</u>	<u>207</u>
P 7 <u>30</u>	<u>36</u>	<u>18</u>	<u>215</u>	<u>30</u>	<u>42</u>	<u>18</u>	<u>209</u>
P 8 <u>35</u>	<u>58</u>	<u>21</u>	<u>216</u>			<u>21</u>	<u>213</u>
P 9 <u>40</u>	<u>76</u>	<u>24</u>	<u>216</u>			<u>24</u>	<u>215</u>
P10 <u>45</u>	<u>44</u>	<u>27</u>	<u>217</u>			<u>27</u>	<u>216</u>
P11 <u>50</u>	<u>39</u>	<u>30</u>	<u>217</u>			<u>30</u>	<u>218</u>
P12 <u>55</u>	<u>39</u>	<u>33</u>	<u>218</u>			<u>33</u>	<u>220</u>
P13		<u>36</u>	<u>219</u>			<u>36</u>	<u>221</u>
P14		<u>39</u>	<u>220</u>			<u>39</u>	<u>221</u>
P15						<u>42</u>	<u>223</u>
P16						<u>45</u>	<u>223</u>
P17							
P18							
P19							
P20							

TKT # 22663
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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Range Oil Co., Inc. Lease & Well No. Maddix #3
Elevation 1264 Kelly Bush. Formation Cattleman Effective Pay - Ft. Ticket No. 22664
Date 12-10-77 Sec. 10 Twp. 33S Range 5E County Cowley State Kansas
Test Approved by Robert R. Olsen Western Representative Norman Allen
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 2940' to 2950' Total Depth 2950'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 2935 Ft. Size 6 3/4 Bottom Packer Depth 2940 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 10 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2943 Ft. Clock No. 8474 Depth 2946 Ft. Clock No. 6896
Top Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside Bottom Make Kuster Cap. 3150 No. 1564 ~~Inside~~ Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ~~Inside~~ Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ~~Inside~~ Outside
Time Set Packer 12:28P M
Tool Open I.F.P. From 12:30 M. to 1:00 M. - Hr. 30 Min. From (B) 3 P.S.I. To (C) 6 P.S.I.
Tool Closed I.C.I.P. From 1:00 M. to 1:30 M. - Hr. 30 Min (D) 846 P.S.I.
Tool Open F.F.P. From 1:30 M. to 2:00 M. - Hr. 30 Min. From (E) 31 P.S.I. To (F) 14 P.S.I.
Tool Closed F.C.I.P. From 2:00 M. to 3:00 M. - Hr. 60 Min. (G) 958 P.S.I.
Initial Hydrostatic Pressure (A) 1507 P.S.I. Final Hydrostatic Pressure (H) 1479 P.S.I. Maximum Temp. 110

INFORMATION

BLOW Weak blow for 20 minutes.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 20' drilling mud

Reversed Out ☐ Yes ☒ No Mud Type Chem Viscosity 46 Weight 9.5 Water Loss 13.6 cc. Chlorides 1,300 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size ☐ In. Make ☐ Ser. No. ☐

Dual Packer ☒ Yes Did Packers Hold? ☒ Yes Did Tool Plug? ☐ No Where? ☐

DRILLING CONTRACTOR Range Drlg Co. Length Drill Pipe 2470 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 330 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 120 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 30 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 12-10-77 Test Ticket No. 22664
 Recorder No. 3085 Capacity 4500 Location 2943 Ft.
 Clock No. 8474 Elevation 1264 Kelly Bushing Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1507</u> P.S.I.	Open Tool	<u>12:28P</u> M	
B First Initial Flow Pressure	<u>3</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>6</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>846</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>31</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>14</u> P.S.I.			
G Final Closed-in Pressure	<u>958</u> P.S.I.			
H Final Hydrostatic Mud	<u>1479</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>3</u>	<u>0</u>	<u>6</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>14</u>
P 2 <u>5</u>	<u>3</u>	<u>3</u>	<u>6</u>	<u>5</u>	<u>14</u>	<u>3</u>	<u>19</u>
P 3 <u>10</u>	<u>5</u>	<u>6</u>	<u>9</u>	<u>10</u>	<u>14</u>	<u>6</u>	<u>91</u>
P 4 <u>15</u>	<u>5</u>	<u>9</u>	<u>24</u>	<u>15</u>	<u>14</u>	<u>9</u>	<u>299</u>
P 5 <u>20</u>	<u>6</u>	<u>12</u>	<u>191</u>	<u>20</u>	<u>14</u>	<u>12</u>	<u>325</u>
P 6 <u>25</u>	<u>6</u>	<u>15</u>	<u>421</u>	<u>25</u>	<u>14</u>	<u>15</u>	<u>546</u>
P 7 <u>30</u>	<u>6</u>	<u>18</u>	<u>452</u>	<u>30</u>	<u>14</u>	<u>18</u>	<u>621</u>
P 8		<u>21</u>	<u>438</u>			<u>21</u>	<u>681</u>
P 9		<u>24</u>	<u>746</u>			<u>24</u>	<u>725</u>
P10		<u>27</u>	<u>820</u>			<u>27</u>	<u>762</u>
P11		<u>30</u>	<u>846</u>			<u>30</u>	<u>793</u>
P12						<u>33</u>	<u>820</u>
P13						<u>36</u>	<u>844</u>
P14						<u>39</u>	<u>867</u>
P15						<u>42</u>	<u>883</u>
P16						<u>45</u>	<u>902</u>
P17						<u>48</u>	<u>918</u>
P18						<u>51</u>	<u>932</u>
P19						<u>54</u>	<u>946</u>
P20						<u>57</u>	<u>958</u>
						<u>60</u>	<u>958</u>

TKT# 226664
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