



Home Office: Wichita, Kansas 67201

P. O. Box 1599

(316) 838-0601

Company Range Oil Company, Inc. Lease & Well No. Maddix #2

Elevation 1256 Kelly Bushing Formation Admire Effective Pay - Ft. Ticket No. 21977

Date 3-31-77 Sec. 11 Twp. 33S Range 5E County Cowley State Kansas

Test Approved by Robert G. Brooks Western Representative Norman Allen

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 598' to 625' Total Depth 625'

Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No

Top Packer Depth 593 Ft. Size 6 3/4 Bottom Packer Depth 598 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 27 Ft. Size 4 1/2 OD Surface Choke Size 1/2 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 618 Ft. Clock No. 8476 Depth 621 Ft. Clock No. 6800

Top Make Kuster Cap. 3150 No. 1564 ~~Inside~~ Outside Bottom Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Outside

Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ~~Inside~~ Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ~~Inside~~ Outside

Time Set Packer 9:55 A M

Tool Open I.F.P. From 10:00 A.M. to 10:30 A.M. ☐ Hr. 30 Min. From (B) 48 P.S.I. To (C) 55 P.S.I.

Tool Closed I.C.I.P. From 10:30 A.M. to 11:00 A.M. ☐ Hr. 30 Min (D) 231 P.S.I.

Tool Open F.F.P. From 11:00 A.M. to 11:30 A.M. ☐ Hr. 30 Min. From (E) 98 P.S.I. To (F) 73 P.S.I.

Tool Closed F.C.I.P. From 11:30 A.M. to 12:30 P.M. 1 Hr. ☐ Min. (G) 231 P.S.I.

Initial Hydrostatic Pressure (A) 283 P.S.I. Final Hydrostatic Pressure (H) 277 P.S.I. Maximum Temp. 70

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 7 minutes. See attached sheet for gas measurements.

Did Well Flow Gas Yes ☐ No ☐ Recovery Total Ft. 75' drilling mud.

Reversed Out ☐ Yes ☒ No ☐ Mud Type chem Viscosity 37 Weight ☐ 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 White & Ellis Drlg. Co. Length Drill Pipe? 325 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe ☐ Ft. I.D. Weight Pipe ☐ In. Tool Joint Size ☐ In. Length Drill Collars 253 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 47 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 3-31-77 Test Ticket No. 21977
 Recorder No. 1564 Capacity 3150 Location 618 Ft.
 Clock No. 8476 Elevation 1256 Kelly Bushing Well Temperature 70 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>283</u> P.S.I.	Open Tool	<u>9:55</u> A M	
B First Initial Flow Pressure	<u>48</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>55</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>231</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>73</u> P.S.I.			
G Final Closed-in Pressure	<u>231</u> P.S.I.			
H Final Hydrostatic Mud	<u>277</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>48</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>73</u>
P 2 <u>5</u>	<u>55</u>	<u>3</u>	<u>213</u>	<u>5</u>	<u>81</u>	<u>3</u>	<u>200</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>219</u>	<u>10</u>	<u>74</u>	<u>6</u>	<u>208</u>
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>224</u>	<u>15</u>	<u>73</u>	<u>9</u>	<u>214</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>225</u>	<u>20</u>	<u>73</u>	<u>12</u>	<u>218</u>
P 6 <u>25</u>	<u>54</u>	<u>15</u>	<u>227</u>	<u>25</u>	<u>73</u>	<u>15</u>	<u>221</u>
P 7 <u>30</u>	<u>55</u>	<u>18</u>	<u>229</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>222</u>
P 8		<u>21</u>	<u>230</u>			<u>21</u>	<u>224</u>
P 9		<u>24</u>	<u>231</u>			<u>24</u>	<u>225</u>
P10		<u>27</u>	<u>231</u>			<u>27</u>	<u>225</u>
P11		<u>30</u>	<u>231</u>			<u>30</u>	<u>225</u>
P12						<u>33</u>	<u>226</u>
P13						<u>36</u>	<u>227</u>
P14						<u>39</u>	<u>228</u>
P15						<u>42</u>	<u>229</u>
P16						<u>45</u>	<u>229</u>
P17						<u>48</u>	<u>229</u>
P18						<u>51</u>	<u>230</u>
P19						<u>54</u>	<u>230</u>
P20						<u>57</u>	<u>231</u>
						<u>60</u>	<u>231</u>



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GAS FLOW REPORT

Date 3-31-77 Ticket 21977 Company Range Oil Company, Inc.
Well Name and No. Maddix #2 Dst No. 1 Interval Tested 598' - 625'
County Cowley State Kansas Sec. 11 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
PRE FLOW						
10:10AM	10 min.	9 PSIG	½" choke			108,000 C.F.P.D. Gas
10:15AM	15 min.	11 PSIG	½" choke			121,000 C.F.P.D. Gas
10:20AM	20 min.	12 PSIG	½" choke			129,000 C.F.P.D. Gas
10:25AM	25 min.	13 PSIG	½" choke			134,000 C.F.P.D. Gas
10:30AM	30 min.	14 PSIG	½" choke			141,000 C.F.P.D. Gas

SECOND FLOW

11:10AM	40 min.	20 PSIG	½" choke			177,000 C.F.P.D. Gas
11:20AM	50 min.	20 PSIG	½" choke			177,000 C.F.P.D. Gas
11:30AM	60 min.	20 PSIG	½" choke			177,000 C.F.P.D. Gas

GAS BOTTLE

Serial No. 635 Date Bottle Filled 3-31-77 Date to be Invoiced 3-31-77

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 G. Brooks

Ticket # 21977

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