

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

Company Range Oil Company, Inc. Lease & Well No. Maddix #8
Elevation 1273 Kelly Bushing Formation Admire Effective Pay ----- Ft. Ticket No. 248
Date 7/12/78 Sec. 10 Twp. 33S Range 5E County Cowley State Kansas
Test Approved by Gerald B. Becker Western Representative Tim Wilson

Formation Test No. 1 Interval Tested from 600' ft. to 628' ft. Total Depth 628' ft.

Packer Depth 595 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Packer Depth 600 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 621 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 624 ft. Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Range Oil Company, Inc.

Mud Type chemical Viscosity 37

Weight 9.0 Water Loss N.C. cc.

Chlorides Unknown P.P.M.

Jars: Make ----- Serial Number -----

Did Well Flow? Yes Reversed Out No

Drill Collar Length 252 I. D. 2 1/4 in.

Weight Pipe Length ----- I. D. ----- in.

Drill Pipe Length 330 I. D. 3.8 in.

Test Tool Size 5 1/2 in. Tool Joint Size 4 1/2 FH in.

Anchor Length 28 ft. Size 5 1/2 in.

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in.

Blow: Weak increasing to strong. Gas to surface 21 minutes. Gauged 6,500;18,500;14,300 CFPD

Gas sample bottle #617 left with geologist. See attached gas sheet for gas measurements.

Recovered 5 ft. of drilling mud.

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Remarks: -----

Time Set Packer(s) 1:40 ~~1:40~~ A.M. Time Started Off Bottom 4:12 ~~4:12~~ P.M. Maximum Temperature 88

Initial Hydrostatic Pressure ----- (A) 288 P.S.I.

Initial Flow Period ----- Minutes 30 (B) 27 P.S.I. to (C) 17 P.S.I.

Initial Closed In Period ----- Minutes 45 (D) 234 P.S.I.

Final Flow Period ----- Minutes 30 (E) 39 P.S.I. to (F) 19 P.S.I.

Final Closed In Period ----- Minutes 45 (G) 228 P.S.I.

Final Hydrostatic Pressure ----- (H) 265 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7-12-78

Test Ticket No. 248

Recorder No. 1559 Capacity 4200 Location 621 Ft.

Clock No. ----- Elevation 1273 Kelly Bushing ----- Well Temperature 88 °F.

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>288</u> P.S.I.	Open Tool	<u>1:40A</u> M	
B First Initial Flow Pressure	<u>27</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>17</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>234</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>39</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>19</u> P.S.I.			
G Final Closed-in Pressure	<u>228</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>6</u> Inc.		Breakdown: <u>15</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>27</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>19</u>
P 2 <u>5</u>	<u>17</u>	<u>3</u>	<u>169</u>	<u>5</u>	<u>23</u>	<u>3</u>	<u>165</u>
P 3 <u>10</u>	<u>15</u>	<u>6</u>	<u>205</u>	<u>10</u>	<u>21</u>	<u>6</u>	<u>194</u>
P 4 <u>15</u>	<u>15</u>	<u>9</u>	<u>216</u>	<u>15</u>	<u>20</u>	<u>9</u>	<u>206</u>
P 5 <u>20</u>	<u>17</u>	<u>12</u>	<u>222</u>	<u>20</u>	<u>19</u>	<u>12</u>	<u>214</u>
P 6 <u>25</u>	<u>17</u>	<u>15</u>	<u>226</u>	<u>25</u>	<u>19</u>	<u>15</u>	<u>220</u>
P 7 <u>30</u>	<u>17</u>	<u>18</u>	<u>228</u>	<u>30</u>	<u>19</u>	<u>18</u>	<u>224</u>
P 8 <u> </u>	<u> </u>	<u>21</u>	<u>228</u>	<u> </u>	<u> </u>	<u>21</u>	<u>226</u>
P 9 <u> </u>	<u> </u>	<u>24</u>	<u>230</u>	<u> </u>	<u> </u>	<u>24</u>	<u>227</u>
P10 <u> </u>	<u> </u>	<u>27</u>	<u>231</u>	<u> </u>	<u> </u>	<u>27</u>	<u>228</u>
P11 <u> </u>	<u> </u>	<u>30</u>	<u>231</u>	<u> </u>	<u> </u>	<u>30</u>	<u>228</u>
P12 <u> </u>	<u> </u>	<u>33</u>	<u>232</u>	<u> </u>	<u> </u>	<u>33</u>	<u>228</u>
P13 <u> </u>	<u> </u>	<u>36</u>	<u>232</u>	<u> </u>	<u> </u>	<u>36</u>	<u>228</u>
P14 <u> </u>	<u> </u>	<u>39</u>	<u>233</u>	<u> </u>	<u> </u>	<u>39</u>	<u>228</u>
P15 <u> </u>	<u> </u>	<u>42</u>	<u>234</u>	<u> </u>	<u> </u>	<u>42</u>	<u>228</u>
P16 <u> </u>	<u> </u>	<u>45</u>	<u>234</u>	<u> </u>	<u> </u>	<u>45</u>	<u>228</u>
P17 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P18 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P19 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P20 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>



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

GAS FLOW REPORT

Date 7-12-78 Ticket 248 Company Range Oil Company, Inc.
Well Name and No. Maddix #8 Dst No. 1 Interval Tested 600' - 628'
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
PRE FLOW						
2:07	25 min.	15" of water		1/4" orifice		6,550 C.F.P.D.
2:12	30 min.	27" of water		1/4" orifice		8,720 C.F.P.D.
Gas to surface in 21 minutes.						

SECOND FLOW						
2:57	0 min.	4 PSIG		1/4" orifice		18,500 C.F.P.D.
3:02	5 min.	3 PSIG		1/4" orifice		15,700 C.F.P.D.
3:07	10 min.	2 1/2 PSIG		1/4" orifice		14,300 C.F.P.D.
3:12	15 min.	2 1/2 PSIG		1/4" orifice		14,300 C.F.P.D.
3:17	20 min.	2 1/2 PSIG		1/4" orifice		14,300 C.F.P.D.
3:22	25 min.	2 1/2 PSIG		1/4" orifice		14,300 C.F.P.D.
3:27	30 min.	2 1/2 PSIG		1/4" orifice		14,300 C.F.P.D.

GAS BOTTLE

Serial No. 617 Date Bottle Filled 7-12-78 Date to be Invoiced 7-12-78

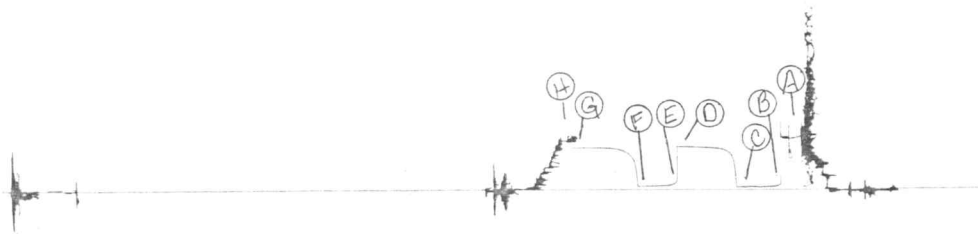
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By 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 Gerald B. Becker

TK+ #248
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P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Range Oil Company, Inc. Lease & Well No. Maddix #8
Elevation 1273 Kelly Bushing Formation Admire Effective Pay ----- Ft. Ticket No. 249
Date 7/12/78 Sec. 10 Twp. 33S Range 5E County Cowley State Kansas
Test Approved by Gerald B. Becker Western Representative Tim Wilson

Formation Test No. 2 Interval Tested from 635' ft. to 655' ft. Total Depth 655' ft.
Packer Depth 630 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.
Packer Depth 635 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 621 ft. Recorder Number 1559 Cap. 4200
Bottom Recorder Depth (Outside) 624 ft. Recorder Number 1558 Cap. 4200
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Range Oil Company, Inc. Drill Collar Length 252 I. D. 2 1/4 in.
Mud Type chemical Viscosity 37 Weight Pipe Length ----- I. D. ----- in.
Weight 9.0 Water Loss N.C. cc. Drill Pipe Length 330 I. D. 3.8 in.
Chlorides Unknown P.P.M. Test Tool Size 5 1/2 in. Tool Joint Size 4 1/2 FH in.
Jars: Make ----- Serial Number ----- Anchor Length 20 ft. Size 5 1/2 in.
Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Very strong. Gas to surface two minutes. Gauged 134,000; 274,000; 227,000 CFPD. See
attached gas sheet for gas measurements.

Recovered 10 ft. of drilling mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:01 A.M. Time Started Off Bottom 11:48 A.M. Maximum Temperature 86 1/2
Initial Hydrostatic Pressure (A) 293 P.S.I.
Initial Flow Period Minutes 30 (B) 34 P.S.I. to (C) 39 P.S.I.
Initial Closed In Period Minutes 45 (D) 228 P.S.I.
Final Flow Period Minutes 45 (E) 54 P.S.I. to (F) 25 P.S.I.
Final Closed In Period Minutes 45 (G) 219 P.S.I.
Final Hydrostatic Pressure (H) 280 P.S.I.



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GAS FLOW REPORT

Date 7-12-78 Ticket 249 Company Range Oil Company, Inc.
Well Name and No. Maddix #8 Dst No. 2 Interval Tested 635' - 655'
County Cowley State Kansas Sec. 10 Twp. 33S Rg. 5E

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Meria 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						
Gas to surface in 2 minutes.						
9:08	5 min.	13 PSIG	1/2" orifice			134,000 C.F.P.D.
9:13	10 min.	17 1/2 PSIG	1/2" orifice			162,500 C.F.P.D.
9:18	15 min.	20 1/2 PSIG	1/2" orifice			180,000 C.F.P.D.
9:23	20 min.	21 PSIG	1/2" orifice			183,000 C.F.P.D.
9:28	25 min.	22 PSIG	1/2" orifice			189,000 C.F.P.D.
9:33	30 min.	22 1/2 PSIG	1/2" orifice			191,000 C.F.P.D.
SECOND FLOW						
10:18	0 min.	11 PSIG	3/4" orifice			274,000 C.F.P.D.
10:23	5 min.	10 PSIG	3/4" orifice			259,000 C.F.P.D.
10:28	10 min.	9 1/2 PSIG	3/4" orifice			251,000 C.F.P.D.
10:33	15 min.	9 PSIG	3/4" orifice			245,000 C.F.P.D.
10:38	20 min.	8 1/2 PSIG	3/4" orifice			236,000 C.F.P.D.
10:43	25 min.	8 1/2 PSIG	3/4" orifice			236,000 C.F.P.D.
10:48	30 min.	8 1/4 PSIG	3/4" orifice			231,000 C.F.P.D.
10:53	35 min.	8 PSIG	3/4" orifice			227,000 C.F.P.D.
10:58	40 min.	8 PSIG	3/4" orifice			227,000 C.F.P.D.
11:03	45 min.	8 PSIG	3/4" orifice			227,000 C.F.P.D.

GAS BOTTLE

Serial No. 602 Date Bottle Filled 7-12-78 Date to be Invoiced 7-12-78

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 Gerald B. Becker

WESTERN TESTING CO., INC.

Pressure Data

Date 7-12-78 Test Ticket No. 249
 Recorder No. 1559 Capacity 4200 Location 621 Ft.
 Clock No. ----- Elevation 1273 Kelly Bushing Well Temperature 86½ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	293 P.S.I.	Open Tool	9:01A M	
B First Initial Flow Pressure	34 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	39 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D Initial Closed-in Pressure	228 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	54 P.S.I.	Final Closed-in Pressure	45 Mins.	42 Mins.
F Second Final Flow Pressure	25 P.S.I.			
G Final Closed-in Pressure	219 P.S.I.			
H Final Hydrostatic Mud	280 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>14</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>34</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>25</u>
P 2 <u>5</u>	<u>25</u>	<u>3</u>	<u>196</u>	<u>5</u>	<u>40</u>	<u>3</u>	<u>182</u>
P 3 <u>10</u>	<u>29</u>	<u>6</u>	<u>211</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>199</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>219</u>	<u>15</u>	<u>32</u>	<u>9</u>	<u>205</u>
P 5 <u>20</u>	<u>36</u>	<u>12</u>	<u>223</u>	<u>20</u>	<u>31</u>	<u>12</u>	<u>209</u>
P 6 <u>25</u>	<u>37</u>	<u>15</u>	<u>224</u>	<u>25</u>	<u>29</u>	<u>15</u>	<u>213</u>
P 7 <u>30</u>	<u>39</u>	<u>18</u>	<u>225</u>	<u>30</u>	<u>28</u>	<u>18</u>	<u>215</u>
P 8		<u>21</u>	<u>225</u>	<u>35</u>	<u>27</u>	<u>21</u>	<u>217</u>
P 9		<u>24</u>	<u>225</u>	<u>40</u>	<u>25</u>	<u>24</u>	<u>218</u>
P10		<u>27</u>	<u>226</u>	<u>45</u>	<u>25</u>	<u>27</u>	<u>218</u>
P11		<u>30</u>	<u>226</u>			<u>30</u>	<u>218</u>
P12		<u>33</u>	<u>227</u>			<u>33</u>	<u>219</u>
P13		<u>36</u>	<u>227</u>			<u>36</u>	<u>219</u>
P14		<u>39</u>	<u>228</u>			<u>39</u>	<u>219</u>
P15		<u>42</u>	<u>228</u>			<u>42</u>	<u>219</u>
P16							
P17							
P18							
P19							
P20							

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