



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

Company Range Oil Company, Inc. Lease & Well No. Jarvis #3"C"
Elevation 1280 KellyBushing Formation Admire Effective Pay ----- Ft. Ticket No. 237
Date 6/14/78 Sec. 2 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 555' ft. to 620' ft. Total Depth 620' ft.
Packer Depth 550 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
Packer Depth 555 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 574 ft. Recorder Number 1559 Cap. 4200
Bottom Recorder Depth (Outside) 577 ft. Recorder Number 1558 Cap. 4200
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Range Oil Company tools #1 Drill Collar Length 252 I. D. 2 1/4 in.
Mud Type chemical Viscosity 38 Weight Pipe Length ----- I. D. ----- in.
Weight 8.9 Water Loss N.C. cc. Drill Pipe Length 285 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 65 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: Weak blow increasing to strong blow. Gas to surface in six minutes on initial closed in peiord. See attached 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) 2:05 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:41 ~~P.M.~~ ^{A.M.} Maximum Temperature
Initial Hydrostatic Pressure (A) 249 P.S.I.
Initial Flow Period Minutes 30 (B) 22 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period Minutes 45 (D) 61 P.S.I.
Final Flow Period Minutes 30 (E) 33 P.S.I. to (F) 10 P.S.I.
Final Closed In Period Minutes 45 (G) 95 P.S.I.
Final Hydrostatic Pressure (H) 245 P.S.I.



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

GAS FLOW REPORT

Date 6/14/78 Ticket 237 Company Range Oil Company, Inc.
 Well Name and No. #3 Jarvis "C" Dst No. 1 Interval Tested 555'-620'
 County Cowley State Kansas Sec. 2 Twp. 33S Rg. 5E

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

Tool open 2:11 A.M.
 Gas to surface 6 minutes on initial closed period.

TOOL SHUT-IN 45 minutes

SECOND FLOW

3:26	0	4" of water 1/4" orifice				3,370 C.F.P.D.
3:31	5	2" of water 1/4" orifice				2,370 C.F.P.D.
3:36	10	2" of water 1/4" orifice				2,370 C.F.P.D.
3:41	15	2" of water 1/4" orifice				2,370 C.F.P.D.
3:46	20	2" of water 1/4" orifice				2,370 C.F.P.D.
3:51	25	2" of water 1/4" orifice				2,370 C.F.P.D.
3:56	30	2" of water 1/4" orifice				2,370 C.F.P.D.

TOOL SHUT-IN 45 minutes

GAS BOTTLE

Serial No. 619 Date Bottle Filled 6/14/78 Date to be Invoiced _____

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 6/14/78

Test Ticket No. 237

Recorder No. 1559

Capacity 4200

Location _____ Ft.

Clock No. -----

Elevation 1280 Kelly Bushing

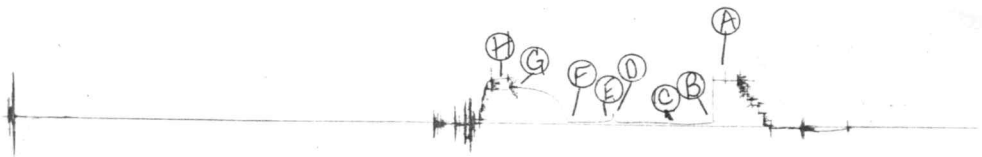
Well Temperature -- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	249 P.S.I.	Open Tool	2:05A M	
B First Initial Flow Pressure	22 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	11 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	61 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	33 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	10 P.S.I.			
G Final Closed-in Pressure	195 P.S.I.			
H Final Hydrostatic Mud	245 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>22</u>	<u>0</u>	<u>11</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>10</u>
P 2 <u>5</u>	<u>16</u>	<u>3</u>	<u>16</u>	<u>5</u>	<u>19</u>	<u>3</u>	<u>67</u>
P 3 <u>10</u>	<u>11</u>	<u>6</u>	<u>16</u>	<u>10</u>	<u>15</u>	<u>6</u>	<u>105</u>
P 4 <u>15</u>	<u>9</u>	<u>9</u>	<u>17</u>	<u>15</u>	<u>13</u>	<u>9</u>	<u>136</u>
P 5 <u>20</u>	<u>9</u>	<u>12</u>	<u>17</u>	<u>20</u>	<u>11</u>	<u>12</u>	<u>153</u>
P 6 <u>25</u>	<u>9</u>	<u>15</u>	<u>17</u>	<u>24</u>	<u>11</u>	<u>15</u>	<u>167</u>
P 7 <u>30</u>	<u>11</u>	<u>18</u>	<u>17</u>	<u>30</u>	<u>10</u>	<u>18</u>	<u>176</u>
P 8 _____		<u>21</u>	<u>17</u>			<u>21</u>	<u>183</u>
P 9 _____		<u>24</u>	<u>18</u>			<u>24</u>	<u>186</u>
P10 _____		<u>27</u>	<u>17</u>			<u>27</u>	<u>189</u>
P11 _____		<u>30</u>	<u>17</u>			<u>30</u>	<u>193</u>
P12 _____		<u>33</u>	<u>14</u>			<u>33</u>	<u>195</u>
P13 _____		<u>36</u>	<u>14</u>			<u>36</u>	<u>195</u>
P14 _____		<u>39</u>	<u>16</u>			<u>39</u>	<u>195</u>
P15 _____		<u>42</u>	<u>17</u>			<u>42</u>	<u>195</u>
P16 _____		<u>45</u>	<u>61</u>			<u>45</u>	<u>195</u>
P17 _____							
P18 _____							
P19 _____							
P20 _____							

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

Company Range Oil Company, Inc. Lease & Well No. Jarvis "C" #3
 Elevation 1280 Kelly Bush Formation Layton Effective Pay - Ft. Ticket No. 238
 Date 6-16-78 Sec. 2 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 2330 ft. to 2344 ft. Total Depth 2344 ft.
 Packer Depth 2325 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2330 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2337 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 2340 ft. Recorder Number 1558 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Company tools (#1) Drill Collar Length 125 I. D. 2 1/4 in.
 Mud Type Chem Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss N.C. cc. Drill Pipe Length 2186 I. D. 3.8 in.
 Chlorides 900 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
 Jars: Make - Serial Number - Anchor Length 14 ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in.

Blow: Weak decreasing to dead in 25 minutes. Flushed tool on final flow period.

Recovered 5 ft. of drilling mud.
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 4:42 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 104
 Initial Hydrostatic Pressure (A) 1125 P.S.I.
 Initial Flow Period Minutes 30 (B) 46 P.S.I. to (C) 29 P.S.I.
 Initial Closed In Period Minutes 30 (D) 712 P.S.I.
 Final Flow Period Minutes 30 (E) 48 P.S.I. to (F) 18 P.S.I.
 Final Closed In Period Minutes 30 (G) 689 P.S.I.
 Final Hydrostatic Pressure (H) 1125 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/16/78 Test Ticket No. 238
 Recorder No. 1569 Capacity 4200 Location 2337 F
 Clock No. ----- Elevation 1280 Kelly Bushing Well Temperature 104 °

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1125	P.S.I.	4:42A	M
B First Initial Flow Pressure	46	P.S.I.	30	Mins. 35 Min
C First Final Flow Pressure	29	P.S.I.	30	Mins. 30 Min
D Initial Closed-in Pressure	712	P.S.I.	30	Mins. 35 Min
E Second Initial Flow Pressure	48	P.S.I.	30	Mins. 30 Min
F Second Final Flow Pressure	18	P.S.I.		
G Final Closed-in Pressure	689	P.S.I.		
H Final Hydrostatic Mud	1125	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>7</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>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	46	0	29	0	48	0	18
P 2 5	31	3	211	5	31	3	155
P 3 10	29	6	343	10	23 Flushed tool	6	318
P 4 15	29	9	450	15	21	9	435
P 5 20	40	12	519	20	21	12	517
P 6 25	31	15	583	25	19	15	570
P 7 30	29	18	623	30	18	18	608
P 8 35	29	21	646	35	18	21	637
P 9		24	668			24	660
P10		27	698			27	681
P11		30	712			30	689
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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