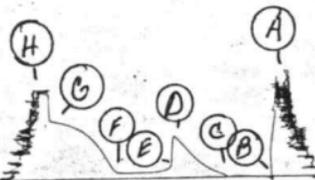


62

TKt # 1973

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Company Range Oil Company, Inc. Lease & Well No. Jarvis "C" #5
 Elevation 1282 Kelly Bushing Formation Admire Effective Pay -- Ft. Ticket No. 1973
 Date 3/19/79 Sec. 2 Twp. 33S Range 5E County Cowley State Kansas
 Test Approved by Stephen M. Kreidler Western Representative W. K. Hager

Formation Test No. 1 Interval Tested from 590' ft. to 607' ft. Total Depth 607' ft.
 Packer Depth 585 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 590 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 597 ft. Recorder Number 1567 Cap. 3150
 Bottom Recorder Depth (Outside) 600 ft. Recorder Number 1564 Cap. 3150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Co. #1 Drill Collar Length 252' I. D. 2 1/4 in.
 Mud Type chemical Viscosity 35 Weight Pipe Length - I. D. - in.
 Weight 8.8 Water Loss 24 cc. Drill Pipe Length 321 I. D. 3.8 in.
 Chlorides 1,000 P.P.M. Test Tool Length 34' ~~is~~ Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 14' 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. Tool Joint Size 3 1/2 IF in.

Blow: Very weak intermittent blow on initial flow period/strong decreasing to weak on final flow period.

Recovered 15 ft. of mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 10:35 ^{A.M.}/_{P.M.} Time Started Off Bottom 12:50 ^{A.M.}/_{P.M.} Maximum Temperature 80
 Initial Hydrostatic Pressure (A) 312 P.S.I.
 Initial Flow Period Minutes 30 (B) 4 P.S.I. to (C) 4 P.S.I.
 Initial Closed In Period Minutes 30 (D) 133 P.S.I.
 Final Flow Period Minutes 30 (E) 13 P.S.I. to (F) 17 P.S.I.
 Final Closed In Period Minutes 42 (G) 191 P.S.I.
 Final Hydrostatic Pressure (H) 287 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/19/79

Recorder No. 1562

Test Ticket No. 1973

Clock No. --

Capacity 3150 Location 597 Ft.

Elevation 1282 Kelly Bushing Well Temperature 80 °F

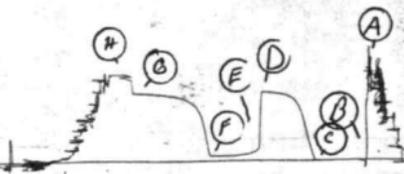
Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>312</u> P.S.I.		<u>10:35A</u> M	
B First Initial Flow Pressure	<u>4</u> P.S.I.	Open Tool		
C First Final Flow Pressure	<u>4</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>133</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>31</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>17</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
G Final Closed-in Pressure	<u>191</u> P.S.I.			
H Final Hydrostatic Mud	<u>287</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>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>4</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>17</u>
P 2 <u>5</u>	<u>4</u>	<u>3</u>	<u>13</u>	<u>5</u>	<u>22</u>	<u>3</u>	<u>27</u>
P 3 <u>10</u>	<u>4</u>	<u>6</u>	<u>19</u>	<u>10</u>	<u>17</u>	<u>6</u>	<u>58</u>
P 4 <u>15</u>	<u>4</u>	<u>9</u>	<u>25</u>	<u>15</u>	<u>17</u>	<u>9</u>	<u>82</u>
P 5 <u>20</u>	<u>4</u>	<u>12</u>	<u>35</u>	<u>20</u>	<u>17</u>	<u>12</u>	<u>104</u>
P 6 <u>25</u>	<u>4</u>	<u>15</u>	<u>47</u>	<u>25</u>	<u>17</u>	<u>15</u>	<u>124</u>
P 7 <u>30</u>	<u>4</u>	<u>18</u>	<u>60</u>	<u>30</u>	<u>17</u>	<u>18</u>	<u>138</u>
P 8 _____	_____	<u>21</u>	<u>79</u>	_____	_____	<u>21</u>	<u>154</u>
P 9 _____	_____	<u>24</u>	<u>95</u>	_____	_____	<u>24</u>	<u>163</u>
P 10 _____	_____	<u>27</u>	<u>115</u>	_____	_____	<u>27</u>	<u>170</u>
P 11 _____	_____	<u>30</u>	<u>133</u>	_____	_____	<u>30</u>	<u>176</u>
P 12 _____	_____	_____	_____	_____	_____	<u>33</u>	<u>181</u>
P 13 _____	_____	_____	_____	_____	_____	<u>36</u>	<u>186</u>
P 14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>189</u>
P 15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>191</u>
P 16 _____	_____	_____	_____	_____	_____	_____	_____
P 17 _____	_____	_____	_____	_____	_____	_____	_____
P 18 _____	_____	_____	_____	_____	_____	_____	_____
P 19 _____	_____	_____	_____	_____	_____	_____	_____
P 20 _____	_____	_____	_____	_____	_____	_____	_____

Tkt # 1974

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Company Range Oil Company, Inc. Lease & Well No. Jarvis "C"#5
 Elevation 1282 Kelly Bushing Admire Formation Effective Pay -- Ft. Ticket No. 1974
 Date 3/19/79 Sec. 2 Twp. 33S Range 5E County Cowley State Kansas
 Test Approved by Stephen M. Kreidler Western Representative W. K. Hager

Formation Test No. 2 Interval Tested from 607 ft. to 620 ft. Total Depth 620 ft.
 Packer Depth 602 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 607 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 612 ft. Recorder Number 1562 Cap. 3150
 Bottom Recorder Depth (Outside) 615 ft. Recorder Number 1564 Cap. 3150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Co. #1 Drill Collar Length 252 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 35 Weight Pipe Length - I. D. - in.
 Weight 8.8 Water Loss 24 cc. Drill Pipe Length 335 I. D. 3.8 in.
 Chlorides 1,000 P.P.M. Test Tool Length 33' in. Tool Size 4 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 13' ft. Size 4 1/2 in.
 Did Well Flow? Gas Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF in.

Blow: Weak, increasing to strong on initial flow period/strong blow with gas to surface in 10 minutes. See attached sheet for gas measurements.

Recovered 20 ft. of mud
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: _____

Time Set Packer(s) 4:20 ~~A.M.~~ P.M. Time Started Off Bottom 6:35 ~~A.M.~~ P.M. Maximum Temperature 80
 Initial Hydrostatic Pressure (A) 317 P.S.I.
 Initial Flow Period Minutes 30 (B) 5 P.S.I. to (C) 5 P.S.I.
 Initial Closed In Period Minutes 30 (D) 216 P.S.I.
 Final Flow Period Minutes 30 (E) 27 P.S.I. to (F) 16 P.S.I.
 Final Closed In Period Minutes 45 (G) 216 P.S.I.
 Final Hydrostatic Pressure (H) 274 P.S.I.

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 3/19/79 Ticket 1974 Company Range Oil Company, Inc.
Well Name and No. Jarvis "C" #5 Dst No. 2 Interval Tested 607' - 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 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 10 minutes.

SECOND FLOW

15 min.	3" of water	1/4" orifice				2,920 CFPD
20 min.	3" of water	1/4" orifice				2,920 CFPD
25 min.	3" of water	1/4" orifice				2,920 CFPD
30 min.	3" of water	1/4" orifice				2,920 CFPD
Bottle left with		geologist				

GAS BOTTLE

Serial No. WTC #1 Date Bottle Filled 3/19/79 Date to be Invoiced 3/19/79

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 Stephen M. Kreidler

WESTERN TESTING CO., INC.
Pressure Data

Date 3/19/79

Test Ticket No. 1974

Recorder No. 1562 Capacity 3150 Location 612 Ft.

Clock No. -- Elevation 1282 Kelly Bushing Well Temperature 80 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>317</u> P.S.I.	Open Tool	<u>4:20P</u> M	
B First Initial Flow Pressure	<u>5</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>5</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>216</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>27</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>16</u> P.S.I.			
G Final Closed-in Pressure	<u>216</u> P.S.I.			
H Final Hydrostatic Mud	<u>274</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	<u>0</u>	<u>5</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>27</u>	<u>0</u>	<u>16</u>
P 2	<u>5</u>	<u>5</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>22</u>	<u>3</u>	<u>83</u>
P 3	<u>10</u>	<u>5</u>	<u>6</u>	<u>122</u>	<u>10</u>	<u>19</u>	<u>6</u>	<u>146</u>
P 4	<u>15</u>	<u>5</u>	<u>9</u>	<u>171</u>	<u>15</u>	<u>16</u>	<u>9</u>	<u>173</u>
P 5	<u>20</u>	<u>5</u>	<u>12</u>	<u>195</u>	<u>20</u>	<u>16</u>	<u>12</u>	<u>186</u>
P 6	<u>25</u>	<u>5</u>	<u>15</u>	<u>206</u>	<u>25</u>	<u>16</u>	<u>15</u>	<u>195</u>
P 7	<u>30</u>	<u>5</u>	<u>18</u>	<u>209</u>	<u>30</u>	<u>16</u>	<u>18</u>	<u>201</u>
P 8			<u>21</u>	<u>212</u>			<u>21</u>	<u>203</u>
P 9			<u>24</u>	<u>214</u>			<u>24</u>	<u>206</u>
P10			<u>27</u>	<u>215</u>			<u>27</u>	<u>209</u>
P11			<u>30</u>	<u>216</u>			<u>30</u>	<u>211</u>
P12							<u>33</u>	<u>212</u>
P13							<u>36</u>	<u>213</u>
P14							<u>39</u>	<u>214</u>
P15							<u>42</u>	<u>215</u>
P16							<u>45</u>	<u>216</u>
P17								
P18								
P19								
P20								