

Company K. R. M. Petroleum Corporation Lease & Well No. #9-2 Selzer
Elevation 1789 Kelly Bushing Formation Douglas Effective Pay - Ft. Ticket No. 15170
Date 2/13/82 Sec. 2 Twp. 34S Range 20W County Comanche State Kansas
Test Approved by Jim S Bird Western Representative Rod Tritt
Formation Test No. 1 Interval Tested from 4176 ft. to 4200 ft. Total Depth 4200 ft.
Packer Depth 4171 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4176 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4180 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 4183 ft. Recorder Number 1565 Cap. 4900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Aldebaran Rig #2 Drill Collar Length 567 I. D. 2 1/4 in.
Mud Type Premix Viscosity 42 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 18.0 cc. Drill Pipe Length 3581 I. D. 3.8 in.
Chlorides 25,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 408 Anchor Length 24 ft. Size 5 1/2 OD 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 4 1/2 FH in.

Blow: Weak blow throughout test.

Recovered 185 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:40 ~~A.M.~~ P.M. Time Started Off Bottom 11:40 ~~A.M.~~ P.M. Maximum Temperature 109
Initial Hydrostatic Pressure (A) 2020 P.S.I.
Initial Flow Period 25 Minutes (B) 115 P.S.I. to (C) 115 P.S.I.
Initial Closed In Period 60 Minutes (D) 1680 P.S.I.
Final Flow Period 30 Minutes (E) 132 P.S.I. to (F) 132 P.S.I.
Final Closed In Period 60 Minutes (G) 1622 P.S.I.
Final Hydrostatic Pressure (H) 2000 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/13/82 Test Ticket No. 15170
 Recorder No. 2606 Capacity 4150 Location 4180 Ft.
 Clock No. - Elevation 1789 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2020	P.S.I.	8:40P	M
B First Initial Flow Pressure	115	P.S.I.	30	Mins. 25 Mins.
C First Final Flow Pressure	115	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1680	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	132	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	132	P.S.I.		
G Final Closed-in Pressure	1622	P.S.I.		
H Final Hydrostatic Mud	2000	P.S.I.		

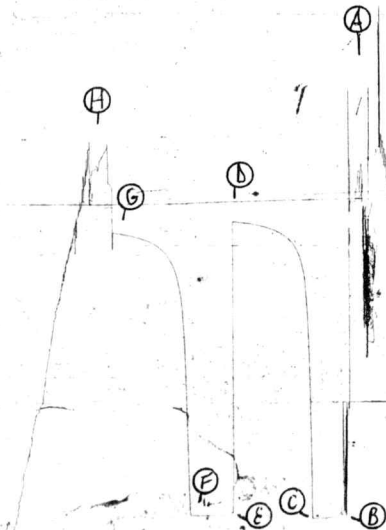
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>20</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>	115	<u>0</u>	115	<u>0</u>	132	<u>0</u>	132
P 2 <u>5</u>	115	<u>3</u>	1273	<u>5</u>	132	<u>3</u>	944
P 3 <u>10</u>	115	<u>6</u>	1424	<u>10</u>	132	<u>6</u>	1255
P 4 <u>15</u>	115	<u>9</u>	1501	<u>15</u>	132	<u>9</u>	1366
P 5 <u>20</u>	115	<u>12</u>	1542	<u>20</u>	132	<u>12</u>	1433
P 6 <u>25</u>	115	<u>15</u>	1571	<u>25</u>	132	<u>15</u>	1477
P 7 _____		<u>18</u>	1594	<u>30</u>	132	<u>18</u>	1508
P 8 _____		<u>21</u>	1611			<u>21</u>	1532
P 9 _____		<u>24</u>	1624			<u>24</u>	1548
P10 _____		<u>27</u>	1634			<u>27</u>	1563
P11 _____		<u>30</u>	1643			<u>30</u>	1575
P12 _____		<u>33</u>	1648			<u>33</u>	1583
P13 _____		<u>36</u>	1655			<u>36</u>	1590
P14 _____		<u>39</u>	1662			<u>39</u>	1597
P15 _____		<u>42</u>	1666			<u>42</u>	1603
P16 _____		<u>45</u>	1669			<u>45</u>	1608
P17 _____		<u>48</u>	1672			<u>48</u>	1612
P18 _____		<u>51</u>	1674			<u>51</u>	1617
P19 _____		<u>54</u>	1676			<u>54</u>	1620
P20 _____		<u>57</u>	1678			<u>57</u>	1622
		<u>60</u>	1680			<u>60</u>	1622

2606 DST #1

TKT # 15170

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Company K. R. M. Petroleum Corporation Lease & Well No. Selzer #9-2
Elevation ---- Formation Swope Effective Pay -- Ft. Ticket No. 15464
Date 2/15/82 Sec. 2 Twp. 34S Range 20W County Comanche State Kansas
Test Approved by Jim S. Bird Western Representative Ray Schwager

Formation Test No. 2 Interval Tested from 4760 ft. to 4775 ft. Total Depth 4775 ft.

Packer Depth 4755 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4760 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4761 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 4764 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Aldebaron Drlg. Rig #2 Drill Collar Length 567 I. D. 2.2 in.

Mud Type mon-pac Viscosity 62 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 12 cc. Drill Pipe Length 4164 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 29 ft. Tool Size 4 1/2 in.

Jars: Make WTC Serial Number 418 Anchor Length 15 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Initial flow period fair blow building to strong blow. Final flow period strong blow throughout.

Recovered 1560 ft. of gas in pipe

Recovered 65 ft. of mud

Recovered 120 ft. of very slightly oil and gas cut mud 1% oil; 10% gas

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Read Recorder #13270

Time Set Packer(s) 7:15 A.M. Time Started Off Bottom 11:45 A.M. Maximum Temperature 117°
Initial Hydrostatic Pressure 2384 P.S.I.
Initial Flow Period 25 Minutes (B) 96 P.S.I. to (C) 108 P.S.I.
Initial Closed In Period 57 Minutes (D) 499 P.S.I.
Final Flow Period 60 Minutes (E) 126 P.S.I. to (F) 139 P.S.I.
Final Closed In Period 117 Minutes (G) 667 P.S.I.
Final Hydrostatic Pressure 2311 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 2/15/82 Test Ticket No. 15464
Recorder No. 13270 Capacity 4375 Location 4764 Ft.
Clock No. --- Elevation ---- Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2384 P.S.I.	Open Tool	7:15P	M
B First Initial Flow Pressure	96 P.S.I.	First Flow Pressure	30 Mins.	25 Mins.
C First Final Flow Pressure	108 P.S.I.	Initial Closed-in Pressure	60 Mins.	57 Mins.
D Initial Closed-in Pressure	499 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	126 P.S.I.	Final Closed-in Pressure	120 Mins.	117 Mins.
F Second Final Flow Pressure	139 P.S.I.			
G Final Closed-in Pressure	667 P.S.I.			
H Final Hydrostatic Mud	2311 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>39</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 <u>0</u>	<u>96</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>126</u>	<u>0</u>	<u>139</u>
P 2 <u>5</u>	<u>96</u>	<u>3</u>	<u>120</u>	<u>5</u>	<u>126</u>	<u>3</u>	<u>148</u>
P 3 <u>10</u>	<u>96</u>	<u>6</u>	<u>139</u>	<u>10</u>	<u>126</u>	<u>6</u>	<u>159</u>
P 4 <u>15</u>	<u>99</u>	<u>9</u>	<u>162</u>	<u>15</u>	<u>126</u>	<u>9</u>	<u>175</u>
P 5 <u>20</u>	<u>101</u>	<u>12</u>	<u>185</u>	<u>20</u>	<u>126</u>	<u>12</u>	<u>191</u>
P 6 <u>25</u>	<u>108</u>	<u>15</u>	<u>205</u>	<u>25</u>	<u>127</u>	<u>15</u>	<u>201</u>
P 7		<u>18</u>	<u>226</u>	<u>30</u>	<u>128</u>	<u>18</u>	<u>214</u>
P 8		<u>21</u>	<u>248</u>	<u>35</u>	<u>130</u>	<u>21</u>	<u>228</u>
P 9		<u>24</u>	<u>264</u>	<u>40</u>	<u>132</u>	<u>24</u>	<u>240</u>
P10		<u>27</u>	<u>288</u>	<u>45</u>	<u>134</u>	<u>27</u>	<u>251</u>
P11		<u>30</u>	<u>307</u>	<u>50</u>	<u>136</u>	<u>30</u>	<u>261</u>
P12		<u>33</u>	<u>326</u>	<u>55</u>	<u>138</u>	<u>33</u>	<u>272</u>
P13		<u>36</u>	<u>349</u>	<u>60</u>	<u>139</u>	<u>36</u>	<u>288</u>
P14		<u>39</u>	<u>374</u>			<u>39</u>	<u>300</u>
P15		<u>42</u>	<u>395</u>			<u>42</u>	<u>314</u>
P16		<u>45</u>	<u>419</u>			<u>45</u>	<u>326</u>
P17		<u>48</u>	<u>445</u>			<u>48</u>	<u>339</u>
P18		<u>51</u>	<u>469</u>			<u>51</u>	<u>356</u>
P19		<u>54</u>	<u>493</u>			<u>54</u>	<u>367</u>
P20		<u>57</u>	<u>499</u>			<u>57</u>	<u>381</u>
						<u>60</u>	<u>395</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 2/15/82 Recorder No. 13270 Capacity 4375 Test Ticket No. 15464 Location 4764 Ft.
Clock No. --- Elevation ---- Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2384</u> P.S.I.	Open Tool	<u>7:15P</u> M	
B First Initial Flow Pressure	<u>96</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>108</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>499</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>126</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>117</u> Mins.
F Second Final Flow Pressure	<u>139</u> P.S.I.			
G Final Closed-in Pressure	<u>667</u> P.S.I.			
H Final Hydrostatic Mud	<u>2311</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>39</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						63	408
P 2						66	424
P 3						69	440
P 4						72	453
P 5						75	467
P 6						78	481
P 7						81	496
P 8						84	512
P 9						87	528
P10						90	544
P11						93	560
P12						96	572
P13						99	589
P14						102	603
P15						105	617
P16						108	633
P17						111	647
P18						114	659
P19						117	667
P20							

JK # 15464

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