



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Viking Resources Lease & Well No. Maier #1
Elevation 1223 Ground Level Formation Kansas City Effective Pay - Ft. Ticket No. 13213
Date 4/20/82 Sec. 22 Twp. 28S Range 4E County Butler State Kansas
Test Approved by Tom Wesselowski Western Representative Robert Davis
Formation Test No. 1 Interval Tested from 2048 ft. to 2057 ft. Total Depth 2057 ft.
Packer Depth 2048 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2043 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2052 ft. Recorder Number 13268 Cap. 4225
Bottom Recorder Depth (Outside) 2057 ft. Recorder Number 11019 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis DRlg. Rig #7 Drill Collar Length 214 I. D. 2 1/4 in.
Mud Type chemical Viscosity 36 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 12 cc. Drill Pipe Length 1814 I. D. 3.8 in.
Chlorides 1,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 9 ft. Size 5 1/2 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. Tool Joint Size 4 1/2 XH in.

Blow: Fair blow throughout test.

Recovered	90	ft. of	oil and gas cut mud	25% oil; 10% water; 40% mud
Recovered	60	ft. of	oil and gas cut mud	15% oil; 10% water; 40% mud
Recovered	120	ft. of	oil and gas cut muddy water	5% oil; 50% water
Recovered	240	ft. of	oil spotted muddy water (Chlorides 26,000 ppm)	
Recovered		ft. of		

Remarks:

Time Set Packer(s)	2:35	A.M. P.M.	Time Started Off Bottom	5:35	A.M. P.M.	Maximum Temperature	97°
Initial Hydrostatic Pressure			(A)	1040	P.S.I.		
Initial Flow Period			Minutes 30	(B)	89	P.S.I. to (C)	127 P.S.I.
Initial Closed In Period			Minutes 30	(D)	730	P.S.I.	
Final Flow Period			Minutes 60	(E)	184	P.S.I. to (F)	248 P.S.I.
Final Closed In Period			Minutes 60	(G)	726	P.S.I.	
Final Hydrostatic Pressure			(H)	1040	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 4/20/82 Test Ticket No. 13213
 Recorder No. 13268 Capacity 4225 Location 2052 Ft.
 Clock No. -- Elevation 1223 Ground Level Well Temperature 97 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1040	P.S.I.	2:35P	M
B First Initial Flow Pressure	89	P.S.I.	30	Mins. 30
C First Final Flow Pressure	127	P.S.I.	30	Mins. 30
D Initial Closed-in Pressure	730	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	184	P.S.I.	60	Mins. 60
F Second Final Flow Pressure	248	P.S.I.		
G Final Closed-in Pressure	726	P.S.I.		
H Final Hydrostatic Mud	1040	P.S.I.		

Open Tool
 First Flow Pressure
 Initial Closed-in Pressure
 Second Flow Pressure
 Final Closed-in Pressure

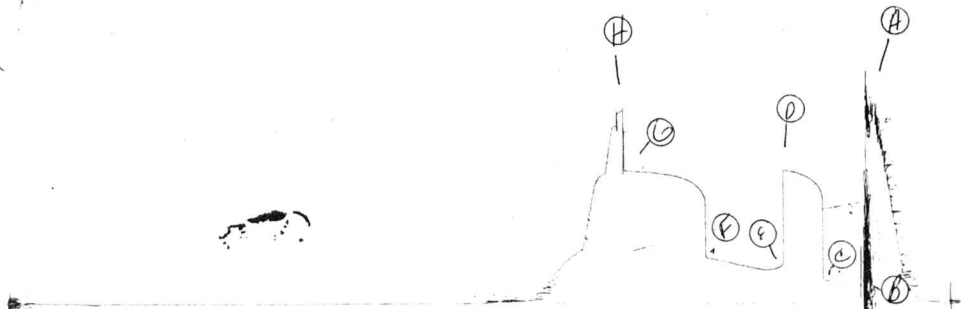
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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>89</u>	<u>0</u>	<u>127</u>	<u>0</u>	<u>184</u>	<u>0</u>	<u>248</u>
P 2 <u>5</u>	<u>89</u>	<u>3</u>	<u>626</u>	<u>5</u>	<u>184</u>	<u>3</u>	<u>604</u>
P 3 <u>10</u>	<u>90</u>	<u>6</u>	<u>657</u>	<u>10</u>	<u>184</u>	<u>6</u>	<u>634</u>
P 4 <u>15</u>	<u>100</u>	<u>9</u>	<u>674</u>	<u>15</u>	<u>185</u>	<u>9</u>	<u>653</u>
P 5 <u>20</u>	<u>111</u>	<u>12</u>	<u>691</u>	<u>20</u>	<u>190</u>	<u>12</u>	<u>668</u>
P 6 <u>25</u>	<u>121</u>	<u>15</u>	<u>702</u>	<u>25</u>	<u>197</u>	<u>15</u>	<u>679</u>
P 7 <u>30</u>	<u>127</u>	<u>18</u>	<u>711</u>	<u>30</u>	<u>206</u>	<u>18</u>	<u>685</u>
P 8		<u>21</u>	<u>718</u>	<u>35</u>	<u>214</u>	<u>21</u>	<u>694</u>
P 9		<u>24</u>	<u>723</u>	<u>40</u>	<u>222</u>	<u>24</u>	<u>700</u>
P10		<u>27</u>	<u>728</u>	<u>45</u>	<u>231</u>	<u>27</u>	<u>704</u>
P11		<u>30</u>	<u>730</u>	<u>50</u>	<u>237</u>	<u>30</u>	<u>707</u>
P12				<u>55</u>	<u>244</u>	<u>33</u>	<u>710</u>
P13				<u>60</u>	<u>248</u>	<u>36</u>	<u>713</u>
P14						<u>39</u>	<u>715</u>
P15						<u>42</u>	<u>717</u>
P16						<u>45</u>	<u>719</u>
P17						<u>48</u>	<u>721</u>
P18						<u>51</u>	<u>723</u>
P19						<u>54</u>	<u>724</u>
P20						<u>57</u>	<u>625</u>
						<u>60</u>	<u>726</u>

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Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Viking Resources, Inc. Lease & Well No. Mahe #1
Elevation 1223 Ground Level Formation Arbuckle Effective Pay - Ft. Ticket No. 14101
Date 4/22/82 Sec. 22 Twp. 28S Range 4E County Butler State Kansas
Test Approved by Tom Wesselowski Western Representative Allen Edgington
Formation Test No. 2 Interval Tested from 2583 ft. to 2594 ft. Total Depth 2594 ft.
Packer Depth 2578 ft. Size - in. Packer Depth - ft. Size - in.
Packer Depth 2582 ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2587 ft. Recorder Number 5666 Cap. 3950
Bottom Recorder Depth (Outside) 2590 ft. Recorder Number 3354 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis Drlg. Rig #7 Drill Collar Length 216 I. D. 2 1/4 in.
Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 10.4 cc. Drill Pipe Length 2362 I. D. 3.8 in.
Chlorides 7,200 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.
Jars: Make - Serial Number - Anchor Length 11 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 4 1/2 XH in.

Blow: Strong blow throughout test.

Recovered 525 ft. of gas cut oil 29 spec. gravity

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s)	<u>12:30</u>	A.M. P.M.	Time Started Off Bottom	<u>2:30</u>	A.M. P.M.	Maximum Temperature	<u>113°</u>
Initial Hydrostatic Pressure			(A)	<u>1307</u>	P.S.I.		
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>6</u>	P.S.I. to (C)	<u>133</u>	P.S.I.
Initial Closed In Period	Minutes	<u>30</u>	(D)	<u>992</u>	P.S.I.		
Final Flow Period	Minutes	<u>30</u>	(E)	<u>171</u>	P.S.I. to (F)	<u>218</u>	P.S.I.
Final Closed In Period	Minutes	<u>30</u>	(G)	<u>994</u>	P.S.I.		
Final Hydrostatic Pressure			(H)	<u>1273</u>	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 4/22/8 2 Test Ticket No. 14101
 Recorder No. 5666 Capacity 3950 Location 2887 Ft.
 Clock No. --- Elevation 1223 Ground Level Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1307</u> P.S.I.	Open Tool	<u>12:30P</u> M	
B First Initial Flow Pressure	<u>6</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>133</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>992</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>171</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>218</u> P.S.I.			
G Final Closed-in Pressure	<u>994</u> P.S.I.			
H Final Hydrostatic Mud	<u>1273</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>10</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>6</u>	<u>0</u>	<u>133</u>	<u>0</u>	<u>171</u>	<u>0</u>	<u>218</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>982</u>	<u>5</u>	<u>171</u>	<u>3</u>	<u>986</u>
P 3 <u>10</u>	<u>65</u>	<u>6</u>	<u>988</u>	<u>10</u>	<u>171</u>	<u>6</u>	<u>990</u>
P 4 <u>15</u>	<u>92</u>	<u>9</u>	<u>991</u>	<u>15</u>	<u>182</u>	<u>9</u>	<u>992</u>
P 5 <u>20</u>	<u>106</u>	<u>12</u>	<u>992</u>	<u>20</u>	<u>192</u>	<u>12</u>	<u>993</u>
P 6 <u>25</u>	<u>120</u>	<u>15</u>	<u>992</u>	<u>25</u>	<u>206</u>	<u>15</u>	<u>994</u>
P 7 <u>30</u>	<u>133</u>	<u>18</u>	<u>992</u>	<u>30</u>	<u>218</u>	<u>18</u>	<u>994</u>
P 8 _____		<u>21</u>	<u>992</u>			<u>21</u>	<u>994</u>
P 9 _____		<u>24</u>	<u>992</u>			<u>24</u>	<u>994</u>
P10 _____		<u>27</u>	<u>992</u>			<u>27</u>	<u>994</u>
P11 _____		<u>30</u>	<u>992</u>			<u>30</u>	<u>994</u>
P12 _____							
P13 _____							
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