

Company Leeman Energy Corporation Lease & Well No. Bertha Peters #1
 Elevation 1734 Ground Level Formation Simpson Effective Pay ----- Ft. Ticket No. 8695
 Date 11/26/80 Sec. 20 Twp. 20S Range 10W County Rice State Kansas
 Test Approved by Robert Campbell Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 3270 ft. to 3300 ft. Total Depth 3300 ft.
 Packer Depth 3270 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3290 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 3293 ft. Recorder Number 3659 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Ramco Drlg. Rig #2 Drill Collar Length 330 I. D. 2.7 in.
 Mud Type starch Viscosity 37 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 14.0 cc. Drill Pipe Length 2925 I. D. 3.8 in.
 Chlorides 45,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 30 ft. Size 5 1/2 OD 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. Tool Joint Size 4 1/2 XH in.

Blow: Weak; increased to fair by end of initial flow period. Good throughout final flow period.

Recovered 150 ft. of oil cut mud
 Recovered 90 ft. of muddy oil
 Recovered 60 ft. of oil cut muddy water
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: _____

Time Set Packer(s) 3:08 ~~P.M.~~ A.M. Time Started Off Bottom 5:25 ~~P.M.~~ A.M. Maximum Temperature 110°
 Initial Hydrostatic Pressure (A) 1681 P.S.I.
 Initial Flow Period Minutes 15 (B) 74 P.S.I. to (C) 85 P.S.I.
 Initial Closed In Period Minutes 27 (D) 1033 P.S.I.
 Final Flow Period Minutes 25 (E) 125 P.S.I. to (F) 140 P.S.I.
 Final Closed In Period Minutes 54 (G) 1025 P.S.I.
 Final Hydrostatic Pressure (H) 1669 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-26-80 Test Ticket No. 8695
 Recorder No. 3474 Capacity 3000 Location 3290 Ft.
 Clock No. - Elevation 1734 Ground Level Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1681</u> P.S.I.	Open Tool	<u>3:08A</u>	<u>M</u>
B First Initial Flow Pressure	<u>74</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>85</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1033</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
E Second Initial Flow Pressure	<u>125</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>140</u> P.S.I.			
G Final Closed-in Pressure	<u>1025</u> P.S.I.			
H Final Hydrostatic Mud	<u>1669</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 9 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 4 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 18 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>74</u>	<u>0</u>	<u>85</u>	<u>0</u>	<u>125</u>	<u>0</u>	<u>140</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>969</u>	<u>5</u>	<u>114</u>	<u>3</u>	<u>960</u>
P 3 <u>10</u>	<u>78</u>	<u>6</u>	<u>1001</u>	<u>10</u>	<u>116</u>	<u>6</u>	<u>982</u>
P 4 <u>15</u>	<u>85</u>	<u>9</u>	<u>1010</u>	<u>15</u>	<u>124</u>	<u>9</u>	<u>994</u>
P 5 _____	_____	<u>12</u>	<u>1019</u>	<u>20</u>	<u>132</u>	<u>12</u>	<u>1002</u>
P 6 _____	_____	<u>15</u>	<u>1023</u>	<u>25</u>	<u>140</u>	<u>15</u>	<u>1007</u>
P 7 _____	_____	<u>18</u>	<u>1027</u>	_____	_____	<u>18</u>	<u>1010</u>
P 8 _____	_____	<u>21</u>	<u>1030</u>	_____	_____	<u>21</u>	<u>1013</u>
P 9 _____	_____	<u>24</u>	<u>1032</u>	_____	_____	<u>24</u>	<u>1015</u>
P10 _____	_____	<u>27</u>	<u>1033</u>	_____	_____	<u>27</u>	<u>1018</u>
P11 _____	_____	_____	_____	_____	_____	<u>30</u>	<u>1020</u>
P12 _____	_____	_____	_____	_____	_____	<u>33</u>	<u>1021</u>
P13 _____	_____	_____	_____	_____	_____	<u>36</u>	<u>1022</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>1023</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>1024</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>1025</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>1025</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>1025</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>1025</u>
P20 _____	_____	_____	_____	_____	_____	_____	_____

TKT # 8695

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