

Company Petroleum Energy, Inc. Lease & Well No. Lanternman "A" #1
Elevation 1852 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticker No. 11081
Date 3/13/81 Sec. 14 Twp. 19S Range 12W County Barton State Kansas
Test Approved by Ken Hamlin Western Representative Cliff Scheuerman

Formation Test No. 1 Interval Tested from 3163 ft. to 3190 ft. Total Depth 3190 ft.

Packer Depth 3158 ft. Size 6 5/8 in. Packer Depth 3163 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3182 ft. Recorder Number 1563 Cap. 4200

Bottom Recorder Depth (Outside) 3185 ft. Recorder Number 1562 Cap. 3900

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

Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.

Mud Type Starch Viscosity 41 Weight Pipe Length 315 I. D. 2.7 in.

Weight 10.0 Water Loss 8.4 cc. Drill Pipe Length 2725 I. D. 3.8 in.

Chlorides 64,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 27 ft. Size 5 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: Weak slowly building to fair 3" blow initial flow period. Strong blow decreasing slightly steady 6 inch blow final flow period.

Recovered 80 ft. of slightly oil specked and gas cut mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of Chlorides 61,000 PPM

Recovered - ft. of -

Remarks: Read outside chart

Time Set Packer(s) 7:00 ~~A.M.~~ P.M. Time Started Off Bottom 10:00 ~~A.M.~~ P.M. Maximum Temperature 99

Initial Hydrostatic Pressure (A) 1756 P.S.I.

Initial Flow Period Minutes 45 (B) 145 P.S.I. to (C) 101 P.S.I.

Initial Closed In Period Minutes 42 (D) 232 P.S.I.

Final Flow Period Minutes 45 (E) 133 P.S.I. to (F) 106 P.S.I.

Final Closed In Period Minutes 42 (G) 213 P.S.I.

Final Hydrostatic Pressure (H) 1747 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 3/13/81 Test Ticket No. 11081

Recorder No. 1562 Capacity 3900 Location 3185 Ft.

Clock No. - Elevation 1852 Kelly Bushing Well Temperature 99 °F

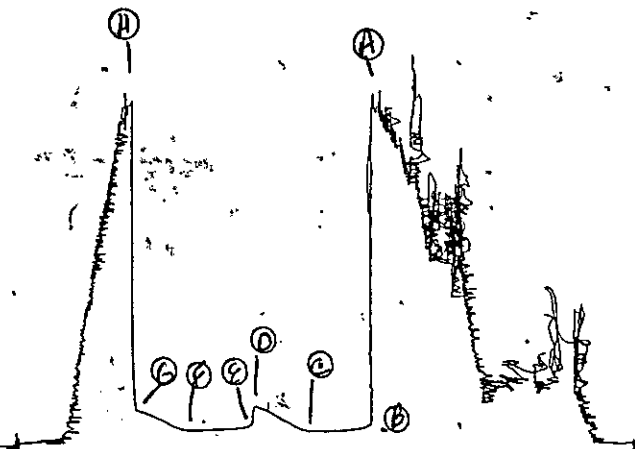
Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1756</u> P.S.I.	Open Tool	<u>7:00P.</u> M	
B First Initial Flow Pressure	<u>145</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>101</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>232</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>133</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>106</u> P.S.I.			
G Final Closed-in Pressure	<u>213</u> P.S.I.			
H Final Hydrostatic Mud	<u>1747</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>9</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>145</u>	<u>0</u>	<u>101</u>	<u>0</u>	<u>133</u>	<u>0</u>	<u>106</u>
P 2 <u>5</u>	<u>120</u>	<u>3</u>	<u>106</u>	<u>5</u>	<u>121</u>	<u>3</u>	<u>106</u>
P 3 <u>10</u>	<u>113</u>	<u>6</u>	<u>111</u>	<u>10</u>	<u>116</u>	<u>6</u>	<u>110</u>
P 4 <u>15</u>	<u>108</u>	<u>9</u>	<u>119</u>	<u>15</u>	<u>113</u>	<u>9</u>	<u>116</u>
P 5 <u>20</u>	<u>105</u>	<u>12</u>	<u>130</u>	<u>20</u>	<u>110</u>	<u>12</u>	<u>123</u>
P 6 <u>25</u>	<u>103</u>	<u>15</u>	<u>142</u>	<u>25</u>	<u>109</u>	<u>15</u>	<u>132</u>
P 7 <u>30</u>	<u>101</u>	<u>18</u>	<u>153</u>	<u>30</u>	<u>108</u>	<u>18</u>	<u>143</u>
P 8 <u>35</u>	<u>101</u>	<u>21</u>	<u>163</u>	<u>35</u>	<u>107</u>	<u>21</u>	<u>156</u>
P 9 <u>40</u>	<u>101</u>	<u>24</u>	<u>177</u>	<u>40</u>	<u>106</u>	<u>24</u>	<u>165</u>
P10 <u>45</u>	<u>101</u>	<u>27</u>	<u>188</u>	<u>45</u>	<u>106</u>	<u>27</u>	<u>174</u>
P11		<u>30</u>	<u>201</u>			<u>30</u>	<u>184</u>
P12		<u>33</u>	<u>209</u>			<u>33</u>	<u>192</u>
P13		<u>36</u>	<u>218</u>			<u>36</u>	<u>200</u>
P14		<u>39</u>	<u>225</u>			<u>39</u>	<u>205</u>
P15		<u>42</u>	<u>232</u>			<u>42</u>	<u>213</u>
P16							
P17							
P18							
P19							
P20							

TKT # 11086

1562



Company Petroleum Energy, Inc. Lease & Well No. Lanternman "A" #1
Elevation 1852 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticker No. 11082
Date 3/14/81 Sec. 14 Twp. 19S Range 12W County Barton State Kansas
Test Approved by Ken Hamlin Western Representative Cliff Scheuerman
Formation Test No. 2 Interval Tested from 3201 ft. to 3230 ft. Total Depth 3230 ft.
Packer Depth 3196 ft. Size - in. Packer Depth 3201 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3220 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3223 ft. Recorder Number 1562 Cap. 33900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 41 Weight Pipe Length 315 I. D. 2.7 in.
Weight 10.0 Water Loss 8.4 cc. Drill Pipe Length 2863 I. D. 3.8 in.
Chlorides 64,000 PPM. Test Tool Length 23 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 29 ft. Size 5 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: Weak blow throughout test

Recovered 30 ft. of very slightly oil specked mud

Recovered ft. of

Recovered ft. of

Recovered ft. of Chlorides 63,000 PPM

Recovered ft. of

Remarks: Read outside chart

Time Set Packer(s) 10:00 ~~PM~~ ^{AM} Time Started Off Bottom 11:30 ~~PM~~ ^{AM} Maximum Temperature 99
Initial Hydrostatic Pressure (A) 1816 P.S.I.
Initial Flow Period Minutes 30 (B) 91 P.S.I. to (C) 75 P.S.I.
Initial Closed In Period Minutes 15 (D) 82 P.S.I.
Final Flow Period Minutes 20 (E) 75 P.S.I. to (F) 72 P.S.I.
Final Closed In Period Minutes 18 (G) 80 P.S.I.
Final Hydrostatic Pressure (H) 1756 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 3/14/81 Recorder No. 1562 Capacity 3900 Test Ticket No. 11082
 Location 3223 Ft. 99 °F
 Clock No. - Elevation 1852 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1816</u>	P.S.I.	<u>10:00A</u>	<u>M</u>
B First Initial Flow Pressure	<u>91</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>75</u>	P.S.I.	<u>20</u>	<u>15</u> Mins.
D Initial Closed-in Pressure	<u>82</u>	P.S.I.	<u>20</u>	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>75</u>	P.S.I.	<u>20</u>	<u>18</u> Mins.
F Second Final Flow Pressure	<u>72</u>	P.S.I.		
G Final Closed-in Pressure	<u>80</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1756</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>5</u> Inc.		Breakdown: <u>4</u> Inc.		Breakdown: <u>6</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>91</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>72</u>
P 2 <u>5</u>	<u>84</u>	<u>3</u>	<u>76</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>73</u>
P 3 <u>10</u>	<u>82</u>	<u>6</u>	<u>78</u>	<u>10</u>	<u>73</u>	<u>6</u>	<u>74</u>
P 4 <u>15</u>	<u>77</u>	<u>9</u>	<u>79</u>	<u>15</u>	<u>72</u>	<u>9</u>	<u>75</u>
P 5 <u>20</u>	<u>76</u>	<u>12</u>	<u>80</u>	<u>20</u>	<u>72</u>	<u>12</u>	<u>76</u>
P 6 <u>25</u>	<u>75</u>	<u>15</u>	<u>82</u>			<u>15</u>	<u>77</u>
P 7 <u>30</u>	<u>75</u>					<u>18</u>	<u>80</u>
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TRT # 61082

1562

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(A)

(A)

(6)

(1)

(2)

(3)

(B)

Company Petroleum Energy, Inc. Lease & Well No. Lanternman "A" #1
Elevation 1852 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 11083
Date 3/15/81 Sec. 14 Twp. 19S Range 12W County Barton State Kansas
Test Approved by Ken Hamlin Western Representative Cliff Scheuerman
Formation Test No. 3 Interval Tested from 3281 ft. to 3350 ft. Total Depth 3350 ft.
Packer Depth 3276 ft. Size 6 5/8 in. Packer Depth 3281 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3283 ft. Recorder Number 1563 Cap 4200
Bottom Recorder Depth (Outside) 3286 ft. Recorder Number 1562 Cap 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap -
Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 39 Weight Pipe Length 315 I. D. 2.7 in.
Weight 10.0 Water Loss 12.4 cc. Drill Pipe Length 2943 I. D. 3.8 in.
Chlorides 70,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 69 ft. Size 5 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 in.
Blow: Initial flow period blow weak but steady throughout. Final flow period weak throughout.

Recovered 20 ft. of very slightly gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Chlorides 68,000 PPM

Time Set Packer(s) 6:00 A.M. Time Started Off Bottom 8:00 A.M. Maximum Temperature 99
Initial Hydrostatic Pressure 1764 P.S.I.
Initial Flow Period 30 Minutes (B) 108 P.S.I. to (C) 76 P.S.I.
Initial Closed In Period 30 Minutes (D) 568 P.S.I.
Final Flow Period 30 Minutes (E) 112 P.S.I. to (F) 83 P.S.I.
Final Closed In Period 24 Minutes (G) 480 P.S.I.
Final Hydrostatic Pressure 1764 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/15/81 Test Ticket No. 11083
 Recorder No. 1562 Capacity 3900 Location 3286 Ft.
 Clock No. - Elevation 1852 Kelly Bushing Well Temperature 99 °F
 Point Pressure Time Given Time Computed
 A. Initial Hydrostatic Mud 1764 P.S.I. Open Tool 6:00A M
 B First Initial Flow Pressure 108 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 76 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 D Initial Closed-in Pressure 568 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
 E Second Initial Flow Pressure 112 P.S.I. Final Closed-in Pressure 30 Mins. 24 Mins.
 F Second Final Flow Pressure 83 P.S.I.
 G Final Closed-in Pressure 480 P.S.I.
 H Final Hydrostatic Mud 1764 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>8</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>108</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>83</u>
P 2 <u>5</u>	<u>90</u>	<u>3</u>	<u>84</u>	<u>5</u>	<u>95</u>	<u>3</u>	<u>92</u>
P 3 <u>10</u>	<u>82</u>	<u>6</u>	<u>126</u>	<u>10</u>	<u>86</u>	<u>6</u>	<u>118</u>
P 4 <u>15</u>	<u>78</u>	<u>9</u>	<u>232</u>	<u>15</u>	<u>83</u>	<u>9</u>	<u>180</u>
P 5 <u>20</u>	<u>76</u>	<u>12</u>	<u>348</u>	<u>20</u>	<u>83</u>	<u>12</u>	<u>266</u>
P 6 <u>25</u>	<u>76</u>	<u>15</u>	<u>434</u>	<u>25</u>	<u>83</u>	<u>15</u>	<u>343</u>
P 7 <u>30</u>	<u>76</u>	<u>18</u>	<u>480</u>	<u>30</u>	<u>83</u>	<u>18</u>	<u>404</u>
P 8		<u>21</u>	<u>511</u>			<u>21</u>	<u>448</u>
P 9		<u>24</u>	<u>536</u>			<u>24</u>	<u>480</u>
P10		<u>27</u>	<u>552</u>			<u>27</u>	
P11		<u>30</u>	<u>568</u>			<u>30</u>	
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 11083

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