

Company Arbor Petroleum Corp. Lease & Well No. #1-A Pickett
Elevation 1223 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 1835
Date 1-6-79 Sec. 13 Twp. 29S Range 3E County Butler State Kansas
Test Approved by A. R. Tiechen Western Representative Tim Wilson
Formation Test No. 2 Interval Tested from 2199 ft. to 2243 ft. Total Depth 2243 ft.
Packer Depth 2194 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2199 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2236 ft. Recorder Number 1558 Cap. 4200
Bottom Recorder Depth (Outside) 2239 ft. Recorder Number 1559 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White S. Ellis #2 Drill Collar Length 278 I. D. 2 1/4 in.
Mud Type Chem Viscosity 39 Weight Pipe Length - I. D. - in.
Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 1902 I. D. 3.8 in.
Chlorides 2000 P.P.M. Test Tool Length 63 in. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 44 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 FH in.

Blow: Strong Throughout

Recovered 390 ft. of Gas In Pipe
Recovered 30 ft. of Oil Cut Mud
Recovered 180 ft. of Heavy Gas and Oil Cut Mud w/ Free Oil in Tool
Recovered 210 ft. of Total Fluid
Recovered - ft. of -

Remarks: _____

Time Set Packer(s) 12:49 ~~-A.M.-~~ P.M. Time Started Off Bottom 4:07 ~~-A.M.-~~ P.M. Maximum Temperature 96
Initial Hydrostatic Pressure Pressures from #1558 (A) 1152 P.S.I.
Initial Flow Period 30 Minutes (B) 59 P.S.I. to (C) 74 P.S.I.
Initial Closed In Period 45 Minutes (D) 748 P.S.I.
Final Flow Period 45 Minutes (E) 124 P.S.I. to (F) 120 P.S.I.
Final Closed In Period 75 Minutes (G) 763 P.S.I.
Final Hydrostatic Pressure (H) 1142 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-6-79 Test Ticket No. 1835
 Recorder No. 1558 Capacity 4200 Location 2236 Ft.
 Clock No. - Elevation 1223 Kelly Bushing Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1152</u> P.S.I.	Open Tool	<u>12:49</u> P.M.	
B First Initial Flow Pressure	<u>59</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>74</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>748</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>124</u> P.S.I.	Final Closed-in Pressure	<u>75</u> Mins.	<u>75</u> Mins.
F Second Final Flow Pressure	<u>120</u> P.S.I.			
G Final Closed-in Pressure	<u>763</u> P.S.I.			
H Final Hydrostatic Mud	<u>1142</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>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>25</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>59</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>124</u>	<u>0</u>	<u>120</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>86</u>	<u>5</u>	<u>103</u>	<u>3</u>	<u>164</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>127</u>	<u>10</u>	<u>105</u>	<u>6</u>	<u>255</u>
P 4 <u>15</u>	<u>61</u>	<u>9</u>	<u>198</u>	<u>15</u>	<u>108</u>	<u>9</u>	<u>399</u>
P 5 <u>20</u>	<u>63</u>	<u>12</u>	<u>312</u>	<u>20</u>	<u>112</u>	<u>12</u>	<u>544</u>
P 6 <u>25</u>	<u>70</u>	<u>15</u>	<u>464</u>	<u>25</u>	<u>115</u>	<u>15</u>	<u>614</u>
P 7 <u>30</u>	<u>74</u>	<u>18</u>	<u>587</u>	<u>30</u>	<u>117</u>	<u>18</u>	<u>652</u>
P 8		<u>21</u>	<u>649</u>	<u>35</u>	<u>118</u>	<u>21</u>	<u>673</u>
P 9		<u>24</u>	<u>675</u>	<u>40</u>	<u>119</u>	<u>24</u>	<u>689</u>
P10		<u>27</u>	<u>700</u>	<u>45</u>	<u>120</u>	<u>27</u>	<u>702</u>
P11		<u>30</u>	<u>714</u>			<u>30</u>	<u>714</u>
P12		<u>33</u>	<u>725</u>			<u>33</u>	<u>723</u>
P13		<u>36</u>	<u>731</u>			<u>36</u>	<u>727</u>
P14		<u>39</u>	<u>737</u>			<u>39</u>	<u>731</u>
P15		<u>42</u>	<u>743</u>			<u>42</u>	<u>735</u>
P16		<u>45</u>	<u>748</u>			<u>45</u>	<u>737</u>
P17						<u>48</u>	<u>740</u>
P18						<u>51</u>	<u>744</u>
P19						<u>54</u>	<u>749</u>
P20						<u>57</u>	<u>752</u>
						<u>60</u>	<u>754</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 1-6-79

Test Ticket No. 1835

Recorder No. 1558 Capacity 4200 Location 2236 Ft.

Clock No. - Elevation 1223 Kelly Bushing Well Temperature 96 °F

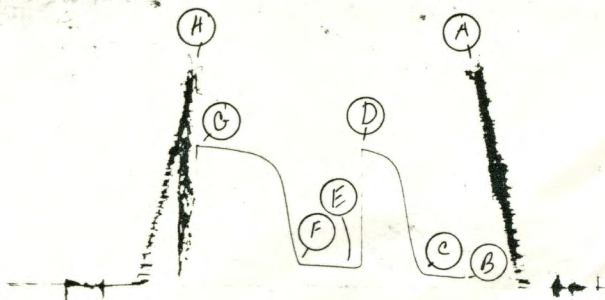
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1152</u>	P.S.I.	<u>12:49</u>	<u>P.M.</u>
B First Initial Flow Pressure	<u>59</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>74</u>	P.S.I.	<u>45</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>748</u>	P.S.I.	<u>45</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>124</u>	P.S.I.	<u>75</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>120</u>	P.S.I.		
G Final Closed-in Pressure	<u>763</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1142</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>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>25</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>63</u>	<u>756</u>
P 2						<u>66</u>	<u>758</u>
P 3						<u>69</u>	<u>760</u>
P 4						<u>72</u>	<u>762</u>
P 5						<u>75</u>	<u>763</u>
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 1835
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Company Arbor Petroleum Corporation Lease & Well No. Pickett #1-A
Elevation 1223 Kelly Bushing Formation Simpson Effective Pay -- Ft. Ticket No. 1836
Date 1/8/79 Sec. 13 Twp. 29S Range 3E County Butler State Kansas
Test Approved by A. R. Tiehen Western Representative Tim Wilson
Formation Test No. 3 Interval Tested from 2918' ft. to 2925' ft. Total Depth 2925' ft.
Packer Depth 2913 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2918 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 2901 ft. Recorder Number 1559 Cap. 4200
Bottom Recorder Depth (Outside) 2921 ft. Recorder Number 1558 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis #2 Drill Collar Length 278 I. D. 2 1/4 in.
Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 11.2 cc. Drill Pipe Length 2616 I. D. 3.8 in.
Chlorides 3,000 P.P.M. Test Tool Length 31' in. Tool Size 5 1/2 in.
Jars: Make -- Serial Number -- Anchor Length 7' 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 FH in.

Blow: Weak decreasing to very weak.

Recovered 15 ft. of drilling mud (3000 PPM chlorides (4.5 resistivity @ 58°F.)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 3 feet. Damaged upper packer

Time Set Packer(s) 8:34 ~~P.M.~~ A.M. Time Started Off Bottom 10:37 ~~P.M.~~ A.M. Maximum Temperature 114
Initial Hydrostatic Pressure Plugged tool (A) 1477 P.S.I.
Initial Flow Period 30 Minutes (B) -- P.S.I. to (C) -- P.S.I.
Initial Closed In Period 45 Minutes (D) -- P.S.I.
Final Flow Period 15 Minutes (E) -- P.S.I. to (F) -- P.S.I.
Final Closed In Period 30 Minutes (G) -- P.S.I.
Final Hydrostatic Pressure 1473 (H) -- P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/8/79

Test Ticket No. 1836

Recorder No. 1559 Capacity 4200 Location 2901 Ft.

Clock No. -- Elevation -- Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1477</u> P.S.I.	Open Tool	<u>8:34A</u>	
B First Initial Flow Pressure	<u>--</u> P.S.I.	First Flow Pressure	<u> </u> Mins.	<u> </u> Mins.
C First Final Flow Pressure	<u>--</u> P.S.I.	Initial Closed-in Pressure	<u> </u> Mins.	<u> </u> Mins.
D Initial Closed-in Pressure	<u>--</u> P.S.I.	Second Flow Pressure	<u> </u> Mins.	<u> </u> Mins.
E Second Initial Flow Pressure	<u>--</u> P.S.I.	Final Closed-in Pressure	<u> </u> Mins.	<u> </u> Mins.
F Second Final Flow Pressure	<u>--</u> P.S.I.			
G Final Closed-in Pressure	<u>--</u> P.S.I.			
H Final Hydrostatic Mud	<u>1473</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u> </u> Inc.		Breakdown: <u> </u> Inc.		Breakdown: <u> </u> Inc.		Breakdown: <u> </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							
P 2							
P 3							
P 4							
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TBA # 1836
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