



Home Office: Great Bend, Kansas  
P. O. Box 793      Swift 3-7903

Company Pickrell Drilling Company Lease & Well No. Sauer #A-1  
Elevation 2472 Kelly Bushings Formation Mississippi Ticket Number 7744  
Date Jan. 28, 1967 Sec. 27 Twp. 14s Range 27w County Gove State Kansas  
Test Approved by Ralph W. Ruwe Western Representative Dean Blagrave

Formation Test No. 1 O.K.  Misrun  Interval Tested From 4269' to 4280' Total Depth 4280'  
Size Main Hole 7 7/8 Rat Hole none Conv.  B.T.  Damaged Yes  No  Conv.  B.T.  Damaged Yes  No   
Packer Depth 4264 Ft. Size 6 3/4 Packer Depth 4269 Ft. Size 6 3/4  
Straddle Yes  No  Conv.  B.T.  Damaged Yes  No   
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 11 Ft. Size 5 1/2 OD

RECORDERS Depth 4273 Ft. Clock No. 6892 Depth 4276 Ft. Clock No. 6774

Top Make Amerada Cap. 4150 No. 2606 Inside Outside Bottom Make Amerada Cap. 4300 No. 1567 Inside Outside

Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 7:51 P M

Tool Open I.F.P. From 7:53P M to 8:05 M Hr. 12 Min. From (B) 45 P.S.I. To (C) 50 P.S.I.

Tool Closed I.C.I.P. From 8:05P to 8:35 M. Hr. 30 Min. (D) 1086 P.S.I.

Tool Open F.F.P. From 8:35 M. to 10:35 M. 2 Hr. Min. From (E) 62 P.S.I. To (F) 106 P.S.I.

Tool Closed F.C.I.P. From 10:35 M. to 11:35 M. 1 Hr. Min. (G) 1084 P.S.I.

Initial Hydrostatic Pressure (A) 2356 P.S.I. Final Hydrostatic Pressure (H) 2341 P.S.I.

SURFACE Size Choke 1/4 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_

INFORMATION \_\_\_\_\_ M. \_\_\_\_\_

\_\_\_\_\_ M. \_\_\_\_\_

\_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak increasing to fair. Bottom Choke Size 3/4.

Did Well Flow Yes  No  Recovery Total Ft. 200' muddy oil

\_\_\_\_\_ Mud

Reversed Out Yes  No  Mud Type starch Viscosity 49 Weight 10.2 Maximum Temp. 136 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Size no Make \_\_\_\_\_ Ser. No. \_\_\_\_\_

Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes

Length Drill Pipe \_\_\_\_\_ ft. I.D. Drill Pipe \_\_\_\_\_ in Length Weight Pipe 1010 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 29 ft.

Remarks \_\_\_\_\_

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date January 28, 1967 Test Ticket No. 7744  
 Recorder No. 2606 Capacity 4150 Location 4273 Ft.  
 Clock No. 6892 Elevation 2472 Kelly Bushings Well Temperature 136 °F

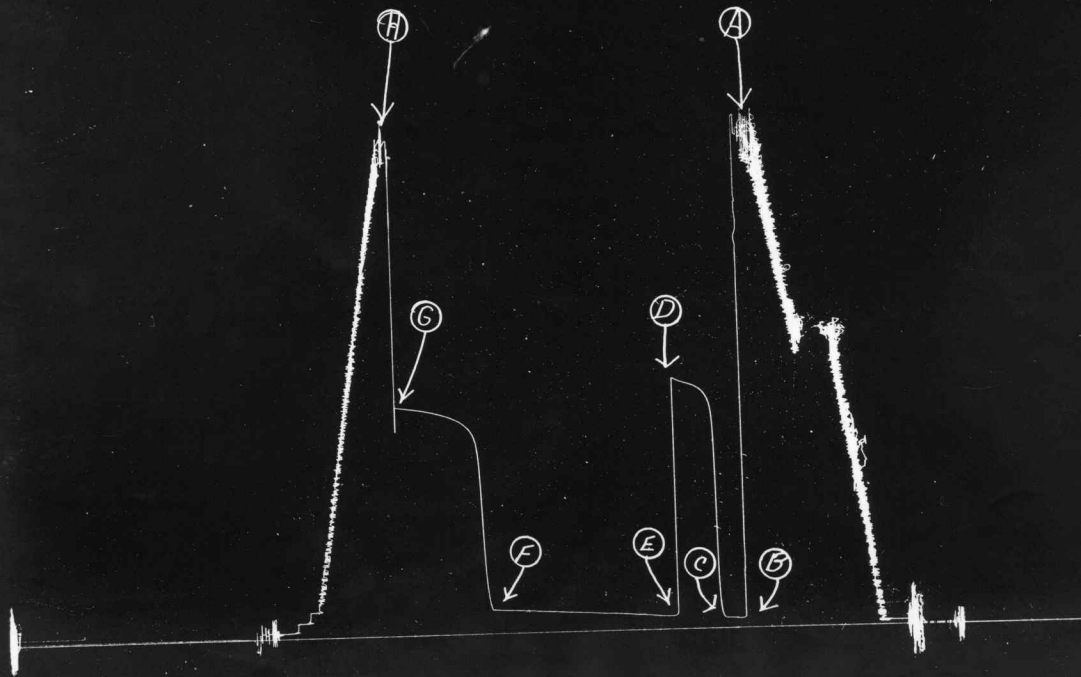
Point	Pressure	P.S.I.	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2356</u>	P.S.I.	<u>7:51 P</u> M	
B First Initial Flow Pressure	<u>45</u>	P.S.I.	<u>12</u> Mins.	<u>11</u> Mins.
C First Final Flow Pressure	<u>50</u>	P.S.I.	<u>30</u> Mins.	<u>32</u> Mins.
D Initial Closed-in Pressure	<u>1086</u>	P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>62</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>106</u>	P.S.I.		
G Final Closed-in Pressure	<u>1084</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2341</u>	P.S.I.		

**PRESSURE BREAKDOWN**

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>24</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>1</u> Min.		final inc. of <u>  </u> Min.		final inc. of <u>  </u> Min.		final inc. of <u>  </u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>45</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>62</u>	<u>0</u>	<u>106</u>
P 2 <u>5</u>	<u>45</u>	<u>3</u>	<u>170</u>	<u>5</u>	<u>62</u>	<u>3</u>	<u>224</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>479</u>	<u>10</u>	<u>62</u>	<u>6</u>	<u>441</u>
P 4 <u>11</u>	<u>50</u>	<u>9</u>	<u>812</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>821</u>
P 5		<u>12</u>	<u>1072</u>	<u>20</u>	<u>68</u>	<u>12</u>	<u>938</u>
P 6		<u>15</u>	<u>1117</u>	<u>25</u>	<u>70</u>	<u>15</u>	<u>975</u>
P 7		<u>18</u>	<u>1140</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>997</u>
P 8		<u>21</u>	<u>1153</u>	<u>35</u>	<u>76</u>	<u>21</u>	<u>1012</u>
P 9		<u>24</u>	<u>1163</u>	<u>40</u>	<u>79</u>	<u>24</u>	<u>1024</u>
P10		<u>27</u>	<u>1169</u>	<u>45</u>	<u>80</u>	<u>27</u>	<u>1033</u>
P11		<u>30</u>	<u>1080</u>	<u>50</u>	<u>81</u>	<u>30</u>	<u>1039</u>
P12		<u>32</u>	<u>1086</u>	<u>55</u>	<u>83</u>	<u>33</u>	<u>1047</u>
P13				<u>60</u>	<u>85</u>	<u>36</u>	<u>1053</u>
P14				<u>65</u>	<u>87</u>	<u>39</u>	<u>1060</u>
P15				<u>70</u>	<u>89</u>	<u>42</u>	<u>1063</u>
P16				<u>75</u>	<u>91</u>	<u>45</u>	<u>1067</u>
P17				<u>80</u>	<u>93</u>	<u>48</u>	<u>1070</u>
P18				<u>85</u>	<u>94</u>	<u>51</u>	<u>1074</u>
P19				<u>90</u>	<u>96</u>	<u>54</u>	<u>1077</u>
P20				<u>95</u>	<u>98</u>	<u>57</u>	<u>1081</u>
				<u>100</u>	<u>99</u>	<u>60</u>	<u>1084</u>
				<u>105</u>	<u>102</u>		
				<u>110</u>	<u>104</u>		
				<u>115</u>	<u>105</u>		
				<u>120</u>	<u>106</u>		

Pickrell Dring Co.  
Sauer A #1

TKT-7744  
Test #1



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud .....	2356	PSI
(B) First Initial Flow Pressure .....	45	PSI
(C) First Final Flow Pressure .....	50	PSI
(D) Initial Closed-in Pressure .....	1086	PSI
(E) Second Initial Flow Pressure .....	62	PSI
(F) Second Final Flow Pressure .....	106	PSI
(G) Final Closed-in Pressure .....	1084	PSI
(H) Final Hydrostatic Mud .....	2341	PSI



Home Office: Great Bend, Kansas  
P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Sauer #A-1  
Elevation 2472 Kelly Bushings Formation Mississippi Ticket Number 7745  
Date Jan. 29, 1967 Sec. 27 Twp. 14s Range 27w County Gove State Kansas  
Test Approved by Ralph W. Ruwe Western Representative Dean Blagrave

Formation Test No. 2 O.K.  Misrun  Interval Tested From 4280' to 4287' Total Depth 4287'  
Size Main Hole 7 7/8 Rat Hole none Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
Packer Depth 4275 Ft. Size 6 3/4 Packer Depth 4280 Ft. Size 6 3/4  
Straddle  Yes  No  Conv.  B.T.  Damaged  Yes  No  
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 7 Ft. Size 5 1/2 OD

RECORDERS Depth 4269 Ft. Clock No. 6892 Depth 4287 Ft. Clock No. 6774  
Top Make Amerada Cap. 4150 No. 2606 ~~Inside~~ Outside Bottom Make Amerada Cap. 4300 No. 1567 ~~Inside~~ Outside

Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make 8:53 A Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer \_\_\_\_\_ M  
Tool Open I.F.P. From 8:55 M to 9:05 M Hr. 10 Min. From (B) \_\_\_\_\_ P.S.I. To (C) 45 P.S.I. 54 P.S.I.  
Tool Closed I.C.I.P. From 9:05A M. to 9:35 M. Hr. 30 Min. (D) \_\_\_\_\_ P.S.I. 1045 P.S.I.  
Tool Open F.F.P. From 9:35 M. to 11:05 M. 1 Hr. 30 Min. From (E) 79 P.S.I. To (F) 174 P.S.I.  
Tool Closed F.C.I.P. From 11:05 M. to 12:05 M. 1 Hr. \_\_\_\_\_ Min. (G) \_\_\_\_\_ P.S.I. 883 P.S.I.  
Initial Hydrostatic Pressure (A) 2360 P.S.I. Final Hydrostatic Pressure (H) 2338 P.S.I.

SURFACE Size Choke 1/4 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_

BLOW Fair increasing to strong Bottom Choke Size 3/4 In.  
Did Well Flow  Yes  No Recovery Total Ft. 330' gas in pipe; 270' clean gassy oil; 180' muddy oil

Reversed Out  Yes  No Mud Type starch Viscosity 56 Weight 10.2 Maximum Temp. 133 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make \_\_\_\_\_ Ser. No. \_\_\_\_\_

Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
Length Drill Pipe \_\_\_\_\_ ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1010 ft. I.D. Weight Pipe 2.7 in Length Drill Collars none ft.

I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 30 ft.  
Remarks Sp. Gravity 40° corrected.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date January 29, 1967 Test Ticket No. 7745  
 Recorder No. 2606 Capacity 4150 Location 4269 Ft.  
 Clock No. 6892 Elevation 2472 Kelly Bushings Well Temperature 133 °F

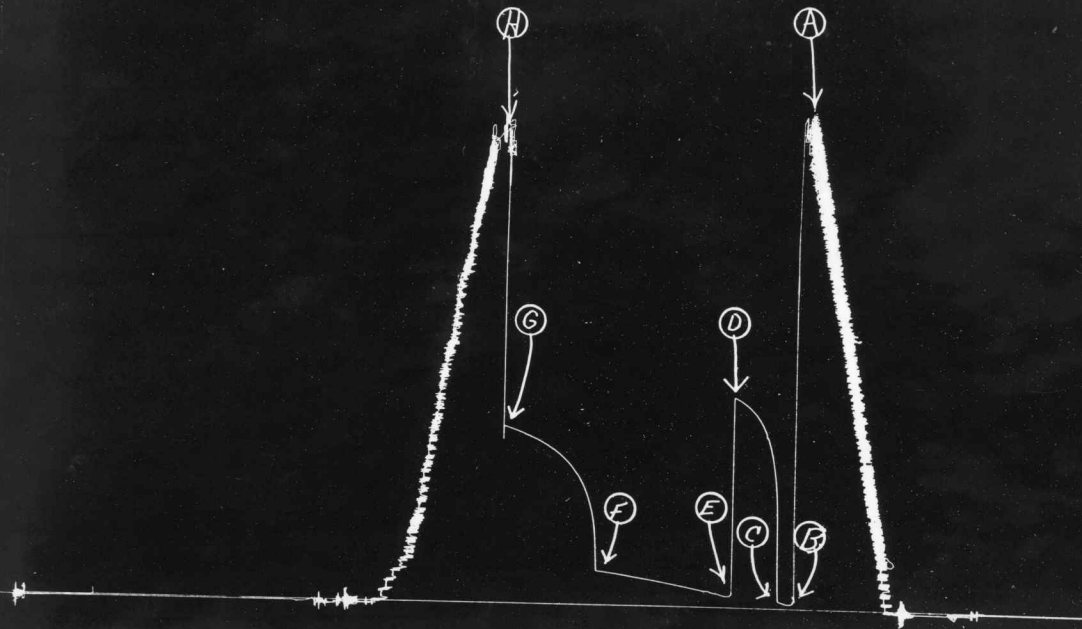
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<b>2360</b>	P.S.I.	<b>8:53 A</b>	
B First Initial Flow Pressure	<b>45</b>	P.S.I.	<b>10</b>	<b>10</b>
C First Final Flow Pressure	<b>54</b>	P.S.I.	<b>30</b>	<b>30</b>
D Initial Closed-in Pressure	<b>1045</b>	P.S.I.	<b>90</b>	<b>90</b>
E Second Initial Flow Pressure	<b>79</b>	P.S.I.	<b>60</b>	<b>60</b>
F Second Final Flow Pressure	<b>174</b>	P.S.I.		
G Final Closed-in Pressure	<b>883</b>	P.S.I.		
H Final Hydrostatic Mud	<b>2338</b>	P.S.I.		

**PRESSURE BREAKDOWN**

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>16</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>--</u> Min.		final inc. of <u>=</u> Min.		final inc. of <u>=</u> Min.		final inc. of <u>=</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<b>0</b>	<b>0</b>	<b>54</b>	<b>0</b>	<b>79</b>	<b>0</b>	<b>174</b>
P 2	<b>5</b>	<b>3</b>	<b>624</b>	<b>5</b>	<b>80</b>	<b>3</b>	<b>458</b>
P 3	<b>10</b>	<b>6</b>	<b>758</b>	<b>10</b>	<b>85</b>	<b>6</b>	<b>535</b>
P 4		<b>9</b>	<b>794</b>	<b>15</b>	<b>91</b>	<b>9</b>	<b>596</b>
P 5		<b>12</b>	<b>866</b>	<b>20</b>	<b>93</b>	<b>12</b>	<b>635</b>
P 6		<b>15</b>	<b>943</b>	<b>25</b>	<b>100</b>	<b>15</b>	<b>669</b>
P 7		<b>18</b>	<b>974</b>	<b>30</b>	<b>108</b>	<b>18</b>	<b>696</b>
P 8		<b>21</b>	<b>996</b>	<b>35</b>	<b>114</b>	<b>21</b>	<b>724</b>
P 9		<b>24</b>	<b>1015</b>	<b>40</b>	<b>122</b>	<b>24</b>	<b>744</b>
P10		<b>27</b>	<b>1034</b>	<b>45</b>	<b>128</b>	<b>27</b>	<b>762</b>
P11		<b>30</b>	<b>1045</b>	<b>50</b>	<b>135</b>	<b>30</b>	<b>779</b>
P12				<b>55</b>	<b>141</b>	<b>33</b>	<b>793</b>
P13				<b>60</b>	<b>147</b>	<b>36</b>	<b>804</b>
P14				<b>65</b>	<b>153</b>	<b>39</b>	<b>818</b>
P15				<b>70</b>	<b>158</b>	<b>42</b>	<b>831</b>
P16				<b>75</b>	<b>163</b>	<b>45</b>	<b>839</b>
P17				<b>80</b>	<b>168</b>	<b>48</b>	<b>849</b>
P18				<b>85</b>	<b>171</b>	<b>51</b>	<b>856</b>
P19				<b>90</b>	<b>174</b>	<b>54</b>	<b>866</b>
P20						<b>57</b>	<b>875</b>
						<b>60</b>	<b>883</b>

Pickrell Drilg Co  
 Sauer "A" #1

TKT-7745  
 Test #2



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud .....	2360	PSI
(B) First Initial Flow Pressure .....	45	PSI
(C) First Final Flow Pressure .....	54	PSI
(D) Initial Closed-in Pressure .....	1045	PSI
(E) Second Initial Flow Pressure .....	79	PSI
(F) Second Final Flow Pressure .....	174	PSI
(G) Final Closed-in Pressure .....	883	PSI
(H) Final Hydrostatic Mud .....	2338	PSI