



Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Lanterman D-#1

Elevation 2433 Kelly Bush. Formation Morrow Sand Effective Pay - Ft. Ticket No. 23416

Date 1-17-78 Sec. 10 Twp. 35S Range 22W County Clark State Kansas

Test Approved by H. F. Filson Western Representative Rod Tritt

Formation Test No. 2 O.K.  Misrun  Interval Tested From 5361' to 5395' Total Depth 5395'

Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 53558 Ft. Size 6 1/2 OD Bottom Packer Depth 5361 Ft. Size 6 1/2 OD

Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth  Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 34 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5364 Ft. Clock No. 6894 Depth 5367 Ft. Clock No. 10167

Top Make Kuster Cap. 4150 No. 2604  Inside  Outside Bottom Make Kuster Cap. 4150 No. 2606  Inside  Outside

Below Straddle: Depth  Rec. No.  Clock No.   Inside  Outside Depth  Ft. Rec. No.  Clock No.   Inside  Outside

Time Set Packer 1:45P M

Tool Open I.F.P. From 1:45 M. to 2:15 M. - Hr. 30 Min. From (B) 83 P.S.I. To (C) 39 P.S.I.

Tool Closed I.C.I.P. From 2:15 M. to 2:45 M. - Hr. 30 Min (D) 104 P.S.I.

Tool Open F.F.P. From 2:45 M. to 4:15 M. - Hr. 90 Min. From (E) 77 P.S.I. To (F) 72 P.S.I.

Tool Closed F.C.I.P. From 4:15 M. to 5:15 M. - Hr. 60 Min. (G) 184 P.S.I.

Initial Hydrostatic Pressure (A) 2619 P.S.I. Final Hydrostatic Pressure (H) 2619 P.S.I. Maximum Temp. 118

### INFORMATION

BLOW Fair blow increasing to strong blow on initial flow period. Strong blow throughout final flow period. No gas to surface.

Did Well Flow  Yes  No Recovery Total Ft. 180' of water cut mud.

Reversed Out  Yes  No Mud Type Drispac Viscosity 40 Weight 9.3 Water Loss 24.0 cc. Chlorides 26,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make W.T.C. Ser. No. 408

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug?  No Where? -

DRILLING CONTRACTOR Pickrell Drilling Length Drill Pipe? 3287 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe  Ft. I.D. Weight Pipe  In. Tool Joint Size  In. Length Drill Collars 244 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 34 Ft.

Remarks: Slid tool about 5' to bottom, vented flows through 2" pipe and depleted flow. Built back to strong blow. No gas to surface during test.

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

Date 1-17-78 Test Ticket No. 23416  
 Recorder No. 2604 Capacity 4150 Location 5364 Ft.  
 Clock No. 6894 Elevation 2433 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2619</u> P.S.I.	Open Tool	<u>1:45P</u> M	
B First Initial Flow Pressure	<u>83</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>39</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>104</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>77</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>72</u> P.S.I.			
G Final Closed-in Pressure	<u>184</u> P.S.I.			
H Final Hydrostatic Mud	<u>2619</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>18</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>83</u>	<u>0</u> <u>39</u>	<u>0</u> <u>77</u>	<u>0</u> <u>72</u>			
P 2	<u>5</u> <u>58</u>	<u>3</u> <u>40</u>	<u>5</u> <u>63</u>	<u>3</u> <u>76</u>			
P 3	<u>10</u> <u>46</u>	<u>6</u> <u>44</u>	<u>10</u> <u>56</u>	<u>6</u> <u>80</u>			
P 4	<u>15</u> <u>40</u>	<u>9</u> <u>49</u>	<u>15</u> <u>55</u>	<u>9</u> <u>82</u>			
P 5	<u>20</u> <u>39</u>	<u>12</u> <u>54</u>	<u>20</u> <u>55</u>	<u>12</u> <u>87</u>			
P 6	<u>25</u> <u>39</u>	<u>15</u> <u>62</u>	<u>25</u> <u>55</u>	<u>15</u> <u>93</u>			
P 7	<u>30</u> <u>39</u>	<u>18</u> <u>70</u>	<u>30</u> <u>55</u>	<u>18</u> <u>100</u>			
P 8	<u>35</u> <u>39</u>	<u>21</u> <u>77</u>	<u>35</u> <u>58</u>	<u>21</u> <u>107</u>			
P 9	<u>40</u> <u>39</u>	<u>24</u> <u>88</u>	<u>40</u> <u>59</u>	<u>24</u> <u>112</u>			
P10	<u>45</u> <u>39</u>	<u>27</u> <u>98</u>	<u>45</u> <u>60</u>	<u>27</u> <u>118</u>			
P11	<u>50</u> <u>39</u>	<u>30</u> <u>104</u>	<u>50</u> <u>62</u>	<u>30</u> <u>126</u>			
P12	<u>55</u> <u>39</u>	<u>33</u> <u>104</u>	<u>55</u> <u>62</u>	<u>33</u> <u>131</u>			
P13	<u>60</u> <u>39</u>	<u>36</u> <u>104</u>	<u>60</u> <u>64</u>	<u>36</u> <u>136</u>			
P14	<u>65</u> <u>39</u>	<u>39</u> <u>104</u>	<u>65</u> <u>65</u>	<u>39</u> <u>143</u>			
P15	<u>70</u> <u>39</u>	<u>42</u> <u>104</u>	<u>70</u> <u>67</u>	<u>42</u> <u>149</u>			
P16	<u>75</u> <u>39</u>	<u>45</u> <u>104</u>	<u>75</u> <u>68</u>	<u>45</u> <u>156</u>			
P17	<u>80</u> <u>39</u>	<u>48</u> <u>104</u>	<u>80</u> <u>70</u>	<u>48</u> <u>163</u>			
P18	<u>85</u> <u>39</u>	<u>51</u> <u>104</u>	<u>85</u> <u>71</u>	<u>51</u> <u>169</u>			
P19	<u>90</u> <u>39</u>	<u>54</u> <u>104</u>	<u>90</u> <u>72</u>	<u>54</u> <u>176</u>			
P20	<u>95</u> <u>39</u>	<u>57</u> <u>104</u>	<u>95</u> <u>72</u>	<u>57</u> <u>182</u>			
P21	<u>100</u> <u>39</u>	<u>60</u> <u>104</u>	<u>100</u> <u>72</u>	<u>60</u> <u>184</u>			

2604.

TKT# 23416

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