

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

Company Pickrell Drilling Company Lease & Well No. Hollenbeck #4
Elevation 2360 Derrick Floor Ticket Number 5441
Date Sept. 5, 1964 Sec. 13 Twp. 21s Range 24w County Hodgeman State Kansas
Test Approved by George E. Link Western Representative Jack Toelkes

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4357' to 4393' Total Depth 4393'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐
Packer Depth 4352 Ft. Size 6 3/4 Packer Depth 4357' Ft. Size 6 3/4
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐
Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 36' Ft. Size 5 1/2 O. D.

RECORDERS Depth 4387' Ft. Clock No. 6892 Depth 4390 Ft. Clock No. 142
Top Make Amerada Cap. 4382 No. 1567 Inside Outside Bottom Make Western Cap. 3000 No. 30 Inside Outside
Below Straddle: Depth ☐ Clock No. ☐ Inside Outside Depth ☐ Ft. Clock No. ☐ Inside Outside
Top Make ☐ Cap. ☐ No. ☐ Inside Outside Bottom Make ☐ Cap. ☐ No. ☐ Inside Outside

Time Set Packer 11:32 A. M
Tool Open I.F.P. From 11:33A M to 11:35A M Hr. 2 Min. From (B) 28 P.S.I. To (C) 28 P.S.I.
Tool Closed I.C.I.P. From 11:35 A.M. to 12:05 P.M. Hr. 30 Min. (D) 66 P.S.I.
Tool Open F.F.P. From 12:05 P M. to 1:05 P M. 1 Hr. 41 P.S.I. To (F) 41 P.S.I.
Tool Closed F.C.I.P. From 1:05 P M. to 1:35P M. Hr. 30 Min. (G) 41 P.S.I.
Initial Hydrostatic Pressure (A) 2414 P.S.I. Final Hydrostatic Pressure (H) 2396 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION ☐ M. ☐ M. ☐ M.

BLOW Very weak 2 minutes Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 6' mud with few spots oil

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 49 Weight 10.2 Maximum Temp. 125 °F
EXTRA EQUIPMENT: Dual Packers yes Safety Joint ☐ Jars: Size ☐ Make ☐ Ser. No. ☐
Type Circ. Sub. plug Did Tool Plug? no Where? ☐ Did Packer Hold? yes
Length Drill Pipe 3619 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 720 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ☐ ft.
I. D. Drill Collars ☐ in. Length D. S. T. Tool 54 ft.

Remarks

Flushed tool after 35 minutes. O. K.

WESTERN TESTING CO., INC.

Pressure Data

Date September 5, 1964 Test Ticket No. 5441
 Recorder No. 1567 Capacity 4300 Location 4387 Ft.
 Clock No. 6892 Elevation 2360 Derrick Floor Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2414</u>	P.S.I.	<u>11:32 A.</u>	<u>M</u>
B First Initial Flow Pressure	<u>28</u>	P.S.I.	<u>2</u> Mins.	<u>2</u> Mins.
C First Final Flow Pressure	<u>28</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>66</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.		
G Final Closed-in Pressure	<u>41</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2396</u>	P.S.I.		

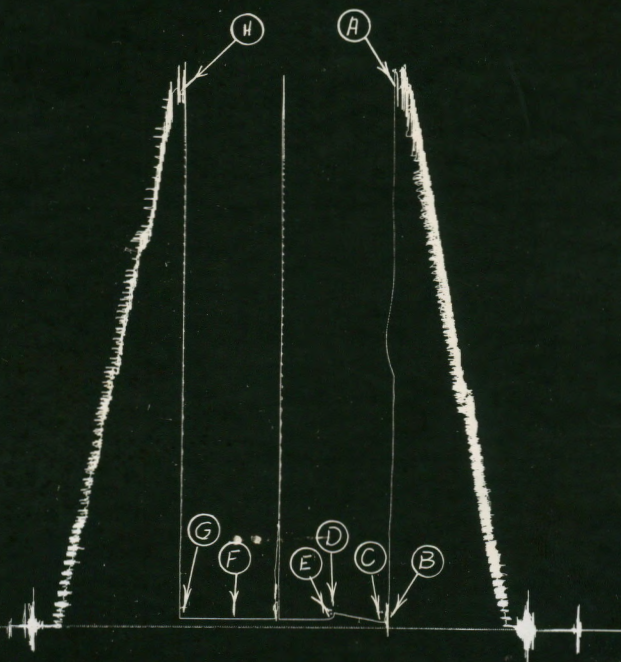
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>2</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>28</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>41</u>
P 2 <u>2</u>	<u>28</u>	<u>3</u>	<u>31</u>	<u>5</u>	<u>41</u>	<u>3</u>	<u>41</u>
P 3		<u>6</u>	<u>36</u>	<u>10</u>	<u>41</u>	<u>6</u>	<u>41</u>
P 4		<u>9</u>	<u>43</u>	<u>15</u>	<u>41</u>	<u>9</u>	<u>41</u>
P 5		<u>12</u>	<u>47</u>	<u>20</u>	<u>41</u>	<u>12</u>	<u>41</u>
P 6		<u>15</u>	<u>51</u>	<u>25</u>	<u>41</u>	<u>15</u>	<u>41</u>
P 7		<u>18</u>	<u>54</u>	<u>30</u>	<u>41</u>	<u>18</u>	<u>41</u>
P 8		<u>21</u>	<u>58</u>	<u>35</u>	<u>41</u>	<u>21</u>	<u>41</u>
P 9		<u>24</u>	<u>62</u>	<u>40</u>	<u>41</u>	<u>24</u>	<u>41</u>
P 10		<u>27</u>	<u>64</u>	<u>45</u>	<u>41</u>	<u>27</u>	<u>41</u>
P 11		<u>30</u>	<u>66</u>	<u>50</u>	<u>41</u>		
P 12				<u>55</u>	<u>41</u>		
P 13				<u>60</u>	<u>41</u>		
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Pickrell Drlg. Co.
Hollenbeck #4

Test #1
TKT #5441



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2414	PSI
(B) First Initial Flow Pressure	28	PSI
(C) First Final Flow Pressure	28	PSI
(D) Initial Closed-in Pressure	66	PSI
(E) Second Initial Flow Pressure	41	PSI
(F) Second Final Flow Pressure	41	PSI
(G) Final Closed-in Pressure	41	PSI
(H) Final Hydrostatic Mud	2396	PSI



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

Company Pickrell Drilling Company Lease & Well No. Hollenbeck #4
Elevation 2360 Derrick Floor Ticket Number 5442
Date Sept. 6, 1964 Sec. 13 Twp. 21s Range 24w County Hodgeman State Kansas
Test Approved by George E. Link Western Representative Jack Toolkes

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4468' to 4474' Total Depth 4474'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐
Packer Depth 4463 Ft. Size 6 3/4 Packer Depth 4463 Ft. Size 6 3/4
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐
Packer Depth Ft. Size
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 P. H. Anchor Length 16 Ft. Size 5 1/2 O. D.

RECORDERS	Depth <u>4468'</u>	Ft.	Clock No. <u>6892</u>	Depth <u>4471</u>	Ft.	Clock No. <u>142</u>	
	Top Make <u>Amerada</u>	Cap. <u>4382</u>	No. <u>1567</u>	Bottom Make <u>Western</u>	Cap. <u>3000</u>	No. <u>30</u>	
Below Straddle:	Depth <u> </u>		Clock No. <u> </u>	Depth <u> </u>		Clock No. <u> </u>	
	Top Make <u> </u>	Cap. <u> </u>	No. <u> </u>	Bottom Make <u> </u>	Cap. <u> </u>	No. <u> </u>	

Time Set Packer 7:15 P. M
Tool Open I.F.P. From 7:17 P. M. to 7:21 P. M. Hr. 4 Min. From (B) 34 P.S.I. To (C) 36 P.S.I.
Tool Closed I.C.I.P. From 7:21 P. M. to 7:51 P. M. Hr. 30 Min. (D) 94.6 P.S.I.
Tool Open F.F.P. From 7:51 P. M. to 9:21 P. M. 1 Hr. 30 Min. From (E) 71 P.S.I. To (F) 211 P.S.I.
Tool Closed F.C.I.P. From 9:21 P. M. to 9:51 P. M. Hr. 30 Min. (G) 788 P.S.I.
Initial Hydrostatic Pressure (A) 2486 P.S.I. Final Hydrostatic Pressure (H) 2475 P.S.I.

SURFACE	Size Choke <u>3/4</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>
	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>
	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>

BLOW Good Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 155' gas in pipe, 30' clean oil, 497' muddy oil.

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 45 Weight 10.1 Maximum Temp. 134 °F
EXTRA EQUIPMENT: Dual Packers yes Safety Joint Jars: Size Make Ser. No.
Type Circ. Sub. plug Did Tool Plug? no Where? Did Packer Hold? yes
Length Drill Pipe 3730 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 720 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.
I. D. Drill Collars in. Length D. S. T. Tool 34 ft.

Remarks

WESTERN TESTING CO., INC. Pressure Data

Date September 6, 1964 Test Ticket No. 5442
Recorder No. 1567 Capacity 4300 Location 4468 Ft.
Clock No. 6892 Elevation 2360 Derrick Floor Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2486</u> P.S.I.	Opened Tool	<u>7:15 P.</u> M	
B First Initial Flow Pressure	<u>34</u> P.S.I.	First Flow Pressure	<u>4</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>36</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>946</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>71</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>211</u> P.S.I.			
G Final Closed-in Pressure	<u>788</u> P.S.I.			
H Final Hydrostatic Mud	<u>2475</u> P.S.I.			

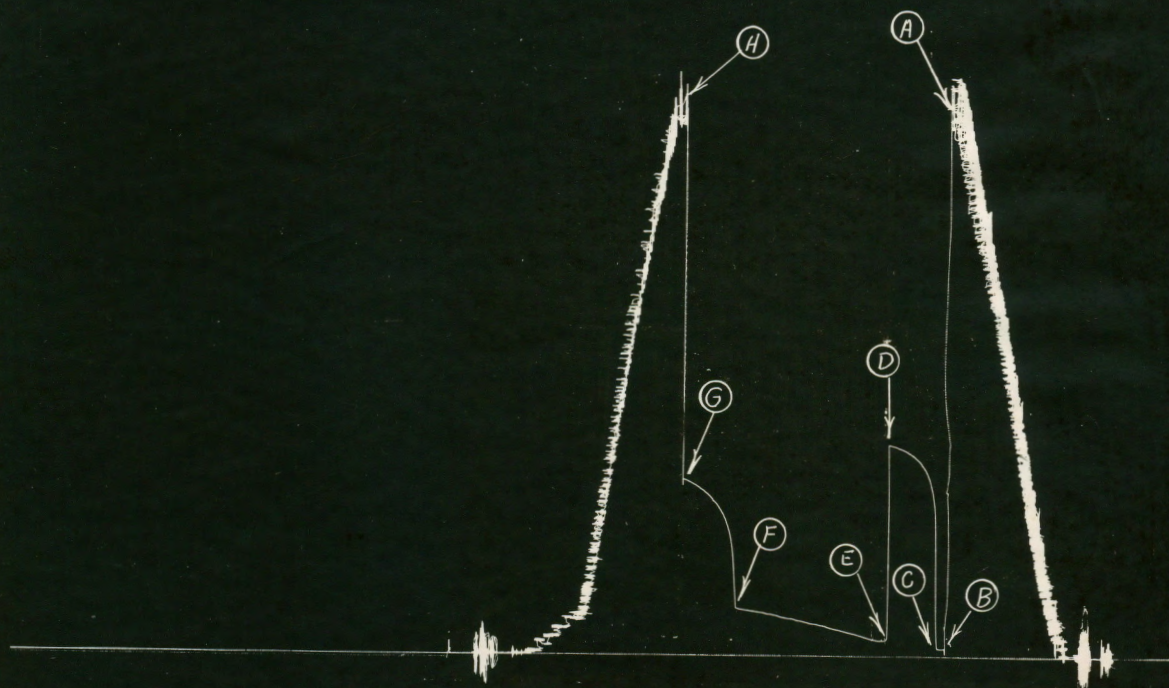
PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>10</u> Inc.	Breakdown: <u>18</u> Inc.	Breakdown: <u>11</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>34</u>	<u>0</u>	<u>36</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>211</u>
P 2 <u>5</u>	<u>36</u>	<u>3</u>	<u>506</u>	<u>5</u>	<u>72</u>	<u>3</u>	<u>495</u>
P 3		<u>6</u>	<u>780</u>	<u>10</u>	<u>79</u>	<u>6</u>	<u>590</u>
P 4		<u>9</u>	<u>842</u>	<u>15</u>	<u>90</u>	<u>9</u>	<u>633</u>
P 5		<u>12</u>	<u>874</u>	<u>20</u>	<u>103</u>	<u>12</u>	<u>667</u>
P 6		<u>15</u>	<u>898</u>	<u>25</u>	<u>110</u>	<u>15</u>	<u>702</u>
P 7		<u>18</u>	<u>911</u>	<u>30</u>	<u>116</u>	<u>18</u>	<u>725</u>
P 8		<u>21</u>	<u>924</u>	<u>35</u>	<u>125</u>	<u>21</u>	<u>742</u>
P 9		<u>24</u>	<u>933</u>	<u>40</u>	<u>140</u>	<u>24</u>	<u>758</u>
P 10		<u>27</u>	<u>941</u>	<u>45</u>	<u>146</u>	<u>27</u>	<u>771</u>
P 11		<u>30</u>	<u>946</u>	<u>50</u>	<u>155</u>	<u>30</u>	<u>781</u>
P 12				<u>55</u>	<u>164</u>	<u>33</u>	<u>788</u>
P 13				<u>60</u>	<u>170</u>		
P 14				<u>65</u>	<u>179</u>		
P 15				<u>70</u>	<u>187</u>		
P 16				<u>75</u>	<u>194</u>		
P 17				<u>80</u>	<u>198</u>		
P 18				<u>85</u>	<u>205</u>		
P 19				<u>90</u>	<u>211</u>		
P 20							

Pickrell Drig. Co.
Hollenbeck #4

Test # 2
TKT # 5442



This is an actual photograph of recorder chart.

POINT**PRESSURE**

(A) Initial Hydrostatic Mud	2486	PSI
(B) First Initial Flow Pressure	34	PSI
(C) First Final Flow Pressure	36	PSI
(D) Initial Closed-in Pressure	946	PSI
(E) Second Initial Flow Pressure	71	PSI
(F) Second Final Flow Pressure	211	PSI
(G) Final Closed-in Pressure	788	PSI
(H) Final Hydrostatic Mud	2475	PSI