



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

Company Hickrell Drilling Company Lease & Well No. Horchem 4-1
Elevation 2597 D. F. Ticket Number 3739
Date 5-25-64 Sec. 30 Twp. 16 Range 25 County Ness State Kansas
Test Approved by Ralph W. Ruwe Western Representative Jack Foolkes

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4402' to 4452' Total Depth 4452'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐
Packer Depth 4397 Ft. Size 6 3/4 Packer Depth 4402 Ft. Size 6 3/4
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐
Packer Depth 5 1/2 O. D. Ft. Size 4 1/2 F. H.
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 50 Ft. Size 20' 5 1/2 O. D. 1-D. C.

RECORDERS Depth 4409 Ft. Clock No. 6892 Depth 4412 Ft. Clock No. 147
Top Make Merada 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 3:28A M
Tool Open I.F.P. From 3:30 AM to 3:32A M Hr. 2 Min. From (B) 21 P.S.I. To (C) 21 P.S.I.
Tool Closed I.C.I.P. From 3:32A M. to 4:02A M. Hr. 30 Min. (D) 755 P.S.I.
Tool Open F.F.P. From 4:02A M. to 4:32A M. 1 Hr. 30 Min. From (E) 48 P.S.I. To (F) 63 P.S.I.
Tool Closed F.C.I.P. From 5:32A M. to 6:02A M. Hr. 30 Min. (G) 116 P.S.I.
Initial Hydrostatic Pressure (A) 2352 P.S.I. Final Hydrostatic Pressure (H) 2326 P.S.I.

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

BLOW Weak through out test Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 120' S. O. & G. C. H. 60 GIP

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 43 Weight 10.1 Maximum Temp. 121 °F
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint Jars: Size Make Ser. No.
Type Circ. Sub. plug Did Tool Plug? no Where? Did Packer Hold? ☒
Length Drill Pipe 3512 ft. I.D. Drill Pipe 3.6 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.
I. D. Drill Collars in. Length D. S. T. Tool 70 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 5-25-64 Recorder No. 1567 Capacity 4300# Test Ticket No. 3739 Location 4409 Ft.
 Clock No. 6892 Elevation 2597' D.F. Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2352</u>	P.S.I.	<u>3:28 A</u>	<u>3:28 AM</u>
B First Initial Flow Pressure	<u>21</u>	P.S.I.	<u>2</u> Mins.	<u>3</u> Mins.
C First Final Flow Pressure	<u>21</u>	P.S.I.	<u>30</u> Mins.	<u>28</u> Mins.
D Initial Closed-in Pressure	<u>755</u>	P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>48</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>63</u>	P.S.I.		
G Final Closed-in Pressure	<u>116</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2326</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>1</u> Min.	Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>21</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>63</u>
P 2 <u>3</u>	<u>21</u>	<u>3</u>	<u>335</u>	<u>5</u>	<u>48</u>	<u>3</u>	<u>64</u>
P 3		<u>6</u>	<u>465</u>	<u>10</u>	<u>48</u>	<u>6</u>	<u>65</u>
P 4		<u>9</u>	<u>506</u>	<u>15</u>	<u>48</u>	<u>9</u>	<u>68</u>
P 5		<u>12</u>	<u>545</u>	<u>20</u>	<u>48</u>	<u>12</u>	<u>72</u>
P 6		<u>15</u>	<u>586</u>	<u>25</u>	<u>48</u>	<u>15</u>	<u>79</u>
P 7		<u>18</u>	<u>639</u>	<u>30</u>	<u>48</u>	<u>18</u>	<u>88</u>
P 8		<u>21</u>	<u>682</u>	<u>35</u>	<u>48</u>	<u>21</u>	<u>95</u>
P 9		<u>24</u>	<u>712</u>	<u>40</u>	<u>48</u>	<u>24</u>	<u>108</u>
P10		<u>27</u>	<u>742</u>	<u>45</u>	<u>49</u>	<u>27</u>	<u>116</u>
P11		<u>28</u>	<u>755</u>	<u>50</u>	<u>51</u>		
P12				<u>55</u>	<u>53</u>		
P13				<u>60</u>	<u>54</u>		
P14				<u>65</u>	<u>56</u>		
P15				<u>70</u>	<u>58</u>		
P16				<u>75</u>	<u>60</u>		
P17				<u>80</u>	<u>61</u>		
P18				<u>85</u>	<u>62</u>		
P19				<u>90</u>	<u>63</u>		
P20							



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

Company Pickrell Drilling Company Lease & Well No. Horchem A-1
Elevation 2597 D. F. Ticket Number 3740
Date 5-26-64 Sec. 30 Twp. 16 Range 25 County Ness State Kansas
Test Approved by Ralph W. Runwee Western Representative Jack Toelkes

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4504' to 4520' Total Depth 4520'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐ Conv. B.T. ☒ Damaged Yes ☒ No ☐
Packer Depth 4499 Ft. Size 6 3/4 Packer Depth 4504 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 16 Ft. Size 5 1/2 O. D.

RECORDERS	Depth <u>4513</u>	Ft.	Clock No. <u>6892</u>	Depth <u>4516</u>	Ft.	Clock No. <u>347</u>
	Top Make <u>Amrad</u>	Cap. <u>4382</u>	No. <u>1567</u>	Bottom Make <u>Western</u>	Cap. <u>3000</u>	No. <u>30</u>
			Inside <u> </u>			Inside <u> </u>
			Outside <u> </u>			Outside <u> </u>
Below Straddle:	Depth <u> </u>		Clock No. <u> </u>	Depth <u> </u>		Clock No. <u> </u>
			Inside <u> </u>			Inside <u> </u>
			Outside <u> </u>			Outside <u> </u>
	Top Make <u> </u>	Cap. <u> </u>	No. <u> </u>	Bottom Make <u> </u>	Cap. <u> </u>	No. <u> </u>
			Inside <u> </u>			Inside <u> </u>
			Outside <u> </u>			Outside <u> </u>

Time Set Packer 4:39 A M
Tool Open I.F.P. From 4:20 A M to 4:22 A M Hr. 2 Min. From (B) 0 P.S.I. To (C) 0 P.S.I.
Tool Closed I.C.I.P. From 4:22 A M. to 4:52 A M. Hr. 30 Min. (D) 164 P.S.I.
Tool Open F.F.P. From 4:52 A M. to 5:52 A M. 1 Hr. Min. From (E) 0 P.S.I. To (F) 0 P.S.I.
Tool Closed F.C.I.P. From 5:52 A M. to 6:22 A M. Hr. 30 Min. (G) 0 P.S.I.
Initial Hydrostatic Pressure (A) 2409 P.S.I. Final Hydrostatic Pressure (H) 2385 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 Very weak 10 minutes Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 5' drilling mud w/spots of oil

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 45 Weight 10 Maximum Temp. 119 °F
EXTRA EQUIPMENT: Dual Packers yes Safety Joint No Jars: Size Make Ser. No.
Type Circ. Sub. plug Did Tool Plug? no Where? Did Packer Hold? yes
Length Drill Pipe 3615 ft. I.D. Drill Pipe 3.0 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.
I. D. Drill Collars in. Length D. S. T. Tool ft.

Remarks
Flushed tool after 15 minutes O. K.

WESTERN TESTING CO., INC.

Pressure Data

Date 5-26-64 Test Ticket No. 3740
 Recorder No. 1567 Capacity 4300# Location 4513 Ft.
 Clock No. 6892 Elevation 2597' D.F. Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2409</u>	P.S.I.	<u>4:19 A</u>	<u>4:19 AM</u>
B First Initial Flow Pressure	<u>0</u>	P.S.I.	<u>2</u> Mins.	<u>2</u> Mins.
C First Final Flow Pressure	<u>0</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>164</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>0</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>0</u>	P.S.I.		
G Final Closed-in Pressure	<u>0</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2385</u>	P.S.I.		

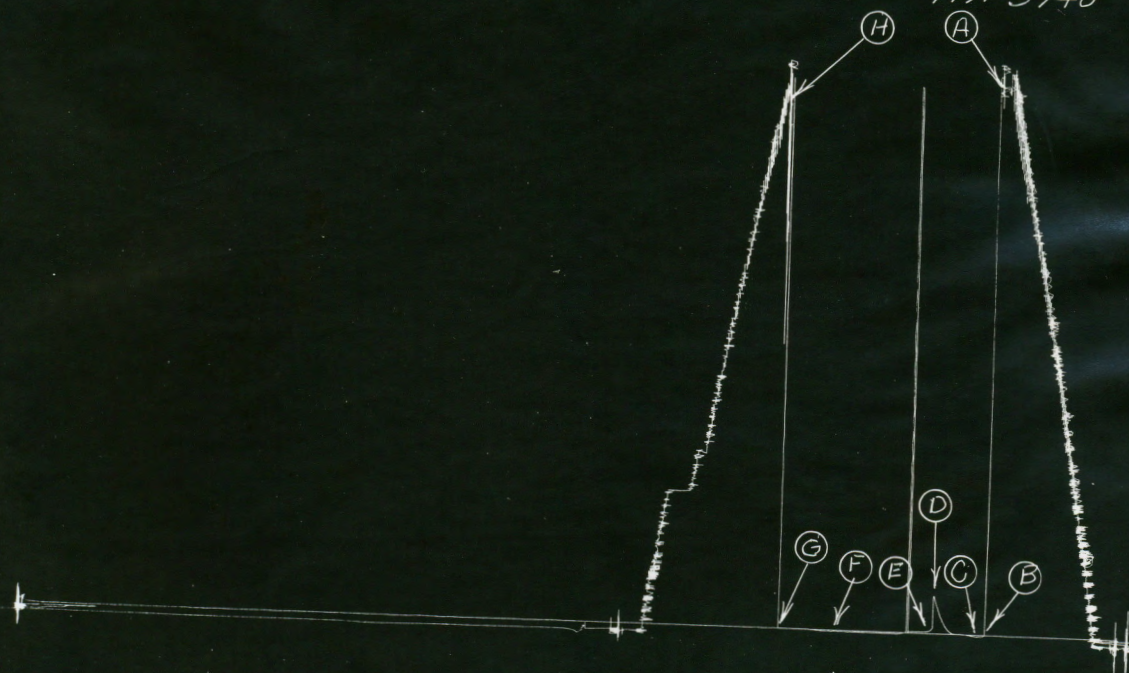
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>2</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
P 2 <u>2</u>	<u>0</u>	<u>3</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>0</u>
P 3		<u>6</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>6</u>	<u>0</u>
P 4		<u>9</u>	<u>0</u>	<u>15</u>	<u>0</u>	<u>9</u>	<u>0</u>
P 5		<u>12</u>	<u>0</u>	<u>20</u>	<u>0</u>	<u>12</u>	<u>0</u>
P 6		<u>15</u>	<u>10</u>	<u>25</u>	<u>0</u>	<u>15</u>	<u>0</u>
P 7		<u>18</u>	<u>41</u>	<u>30</u>	<u>0</u>	<u>18</u>	<u>0</u>
P 8		<u>21</u>	<u>88</u>	<u>35</u>	<u>0</u>	<u>21</u>	<u>0</u>
P 9		<u>24</u>	<u>129</u>	<u>40</u>	<u>0</u>	<u>24</u>	<u>0</u>
P 10		<u>27</u>	<u>164</u>	<u>45</u>	<u>0</u>	<u>27</u>	<u>0</u>
P 11				<u>50</u>	<u>0</u>	<u>30</u>	<u>0</u>
P 12				<u>55</u>	<u>0</u>		
P 13				<u>60</u>	<u>0</u>		
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Pickrell Drilling Co.
Horchem A-1

Test # 2,
TKT# 3740



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	2409 PSI
(B) First Initial Flow Pressure	0 PSI
(C) First Final Flow Pressure	0 PSI
(D) Initial Closed-in Pressure	164 PSI
(E) Second Initial Flow Pressure	0 PSI
(F) Second Final Flow Pressure	0 PSI
(G) Final Closed-in Pressure	0 PSI
(H) Final Hydrostatic Mud	2385 PSI



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Company Pickrell Drilling Company Lease & Well No. Norchem A-1
Elevation 2597 D. F. Ticket Number 3741
Date 5-26-64 Sec. 30 Twp. 16 Range 25 County Ness State Kansas
Test Approved by Ralph W. Ruwwee Western Representative Jack Toelkes

Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4504 to 4530 Total Depth 4530
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐
Packer Depth 4499 Ft. Size 6 3/4 Packer Depth 4504 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 26 Ft. Size 5 1/2 O. D.

RECORDERS	Depth <u>4515</u> Ft.	Clock No. <u>6892</u>	Depth <u>4518</u> Ft.	Clock No. <u>147</u>
	Top Make <u>Amarada</u> Cap. <u>4382</u> No. <u>1567</u>	Inside ☐ Outside ☒	Bottom Make <u>Western</u> Cap. <u>3000</u> No. <u>30</u>	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 6:12P M
Tool Open I.F.P. From 6:13P M to 6:15P M Hr. 2 Min. From (B) 28 P.S.I. To (C) 28 P.S.I.
Tool Closed I.C.I.P. From 6:15 M. to 6:45P M. Hr. 30 Min. (D) 1273 P.S.I.
Tool Open F.F.P. From 6:45 M. to M. Hr. Min. From (E) 51 P.S.I. To (F) 98 P.S.I.
Tool Closed F.C.I.P. From M. to M. Hr. Min. (G) 1187 P.S.I.
Initial Hydrostatic Pressure (A) 2460 P.S.I. Final Hydrostatic Pressure (H) 2460 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 Weak build up to good Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 60' GIP 248' H. O. & G. C. M.

Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 45 Weight 10 Maximum Temp. 120 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size Make Ser. No.
Type Circ. Sub. plug Did Tool Plug? no Where? Did Packer Hold? yes
Length Drill Pipe 3615 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.
I. D. Drill Collars in. Length D. S. T. Tool 45 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date May 26, 1964

Test Ticket No. 3741

Recorder No. 1567 Capacity 4300

Location 4515 Ft.

Clock No. 6892 Elevation 2597 Derrick Floor

Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2460</u> P.S.I.	Opened Tool	<u>6:12 P</u>	
B First Initial Flow Pressure	<u>28</u> P.S.I.	First Flow Pressure	<u>2</u> Mins.	<u>2</u> Mins.
C First Final Flow Pressure	<u>28</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1273</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>51</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>98</u> P.S.I.			
G Final Closed-in Pressure	<u>1187</u> P.S.I.			
H Final Hydrostatic Mud	<u>2460</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.

Breakdown: 1 Inc.
of 2 mins. and a
final inc. of 0 Min.

Initial Shut-In

Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure

Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

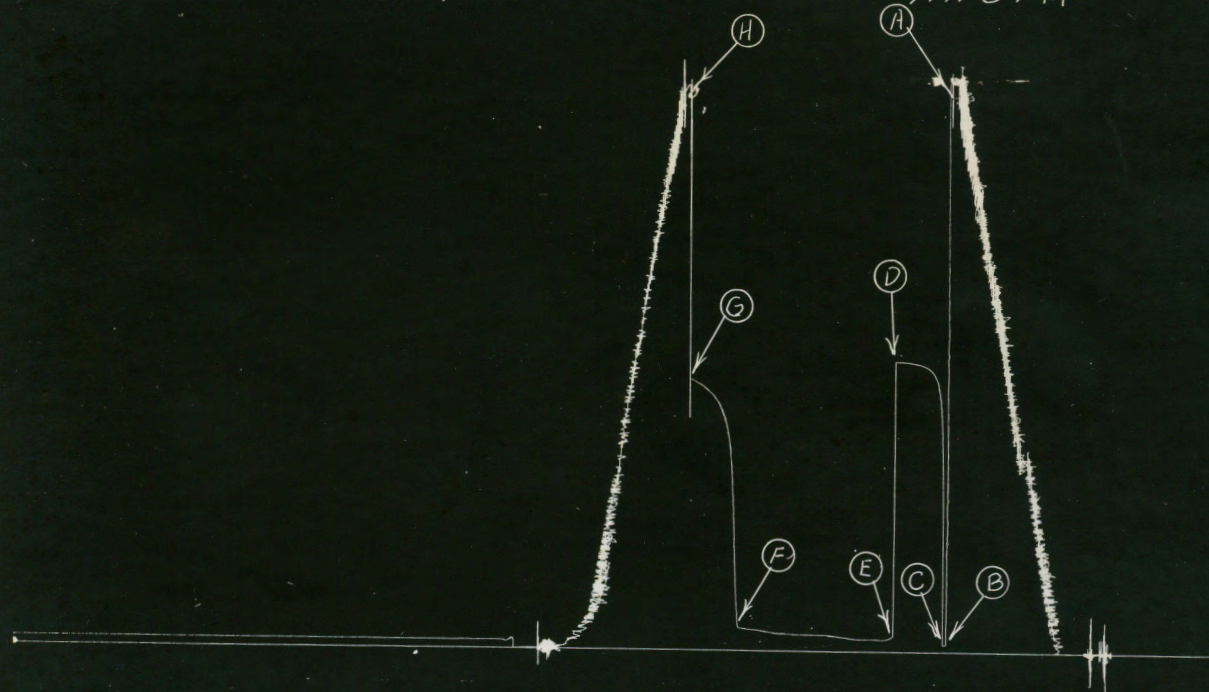
Final Shut-In

Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

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>51</u>	<u>0</u>	<u>98</u>
P 2 <u>2</u>	<u>28</u>	<u>3</u>	<u>577</u>	<u>5</u>	<u>51</u>	<u>3</u>	<u>352</u>
P 3		<u>6</u>	<u>963</u>	<u>10</u>	<u>51</u>	<u>6</u>	<u>648</u>
P 4		<u>9</u>	<u>1187</u>	<u>15</u>	<u>52</u>	<u>9</u>	<u>887</u>
P 5		<u>12</u>	<u>1234</u>	<u>20</u>	<u>54</u>	<u>12</u>	<u>1000</u>
P 6		<u>15</u>	<u>1253</u>	<u>25</u>	<u>58</u>	<u>15</u>	<u>1066</u>
P 7		<u>18</u>	<u>1262</u>	<u>30</u>	<u>64</u>	<u>18</u>	<u>1103</u>
P 8		<u>21</u>	<u>1266</u>	<u>35</u>	<u>69</u>	<u>21</u>	<u>1131</u>
P 9		<u>24</u>	<u>1268</u>	<u>40</u>	<u>71</u>	<u>24</u>	<u>1152</u>
P 10		<u>27</u>	<u>1270</u>	<u>45</u>	<u>72</u>	<u>27</u>	<u>1167</u>
P 11		<u>30</u>	<u>1273</u>	<u>50</u>	<u>72</u>	<u>30</u>	<u>1178</u>
P 12				<u>55</u>	<u>73</u>	<u>33</u>	<u>1187</u>
P 13				<u>60</u>	<u>75</u>		
P 14				<u>65</u>	<u>77</u>		
P 15				<u>70</u>	<u>79</u>		
P 16				<u>75</u>	<u>84</u>		
P 17				<u>80</u>	<u>90</u>		
P 18				<u>85</u>	<u>95</u>		
P 19				<u>90</u>	<u>98</u>		
P 20							

Pickrell Drilling Co.
Horchem #A-1

Test #3
TAT #3741



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2460	PSI
(B)	First Initial Flow Pressure	28	PSI
(C)	First Final Flow Pressure	28	PSI
(D)	Initial Closed-in Pressure	1273	PSI
(E)	Second Initial Flow Pressure	51	PSI
(F)	Second Final Flow Pressure	98	PSI
(G)	Final Closed-in Pressure	1187	PSI
(H)	Final Hydrostatic Mud	2460	PSI



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

Company Pickrell Drilling Company Lease & Well No. Horchem # A-1
Elevation 2597 D. F. Ticket Number 3742
Date 5-27-64 Sec. 30 Twp. 16 Range 25 County Ness State Kansas
Test Approved by Ralph W. Ruwe Western Representative Jack Toelkes

Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 4530' to 4535' Total Depth 4535'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☒ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☒ Yes ☒ No ☐
Packer Depth 4525 Ft. Size 6 3/4 Packer Depth 4530 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 5 Ft. Size 5 1/2 O. D.

RECORDERS Depth 4515 A.P. Ft. Clock No. 6892 Depth 4533 Ft. Clock No. 147
Top Make Amarada 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 6:32A M
Tool Open I.F.P. From 6:33A M to 6:35M Hr. 2 Min. From (B) 8 P.S.I. To (C) 8 P.S.I.
Tool Closed I.C.I.P. From 6:35A M. to 7:05A M. Hr. 30 Min. (D) 1274 P.S.I.
Tool Open F.F.P. From 7:05A M. to 9:05A M. 2 Hr. Min. From (E) 32 P.S.I. To (F) 110 P.S.I.
Tool Closed F.C.I.P. From 9:05 A M. to 9:35A M. Hr. 30 Min. (G) 1219 P.S.I.
Initial Hydrostatic Pressure (A) 2462 P.S.I. Final Hydrostatic Pressure (H) 2438 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION ☐ M. ☐ M. 40 Gr. @ 70°F.
☐ M.

BLOW Weak build up to strong Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 200' Gas in pipe 200' Clean oil 150' Very heavy oil and gas cut mud. Mud
Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 45 Weight 10 Maximum Temp. 122 °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 3635 ft. I.D. Drill Pipe 8.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ☐ ft.
I. D. Drill Collars ☐ in. Length D. S. T. Tool 30 ft.
Remarks

WESTERN TESTING CO., INC. Pressure Data

Date May 27, 1964 Test Ticket No. 3742
Recorder No. 1567 Capacity 4300 Location 4515 Ft.
Clock No. 6892 Elevation 2597 Derrick Floor Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2462</u> P.S.I.	Opened Tool	<u>6:32 A M</u>	
B First Initial Flow Pressure	<u>8</u> P.S.I.	First Flow Pressure	<u>2</u> Mins.	<u>2</u> Mins.
C First Final Flow Pressure	<u>8</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1274</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>32</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>110</u> P.S.I.			
G Final Closed-in Pressure	<u>1219</u> P.S.I.			
H Final Hydrostatic Mud	<u>2438</u> P.S.I.			

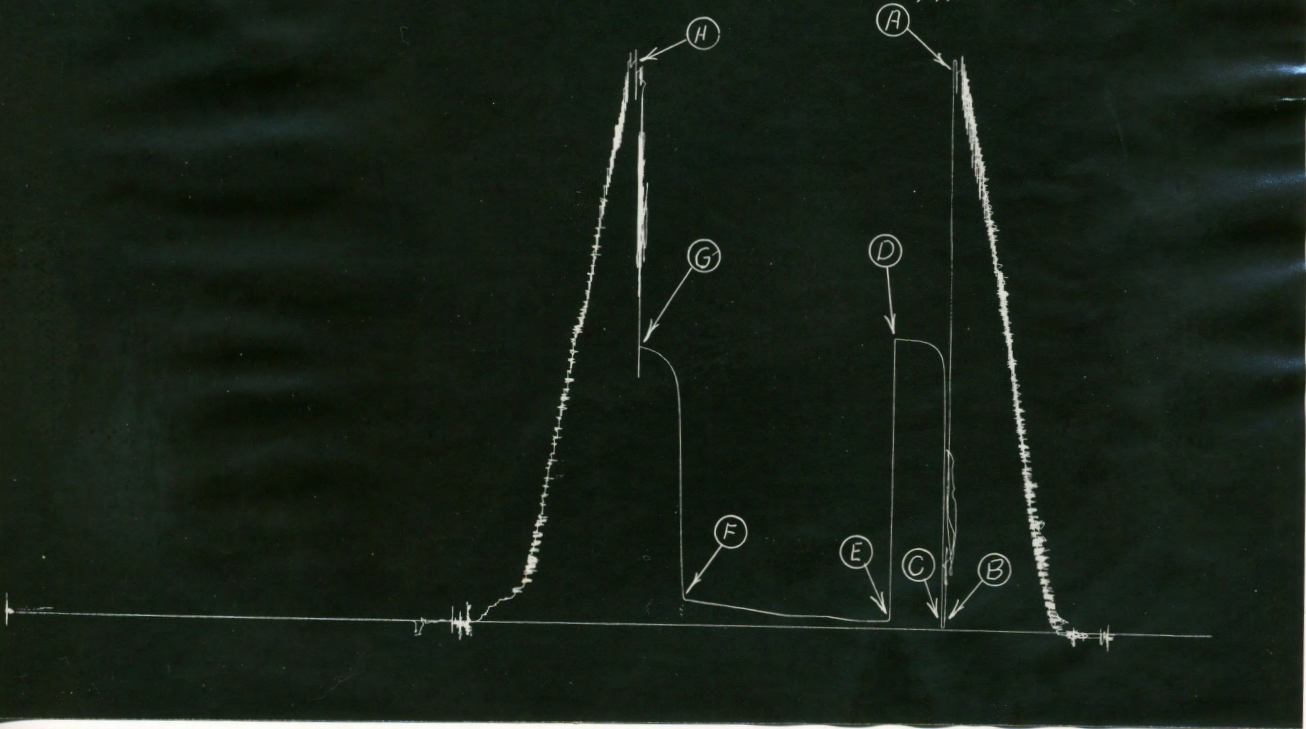
PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>10</u> Inc.	Breakdown: <u>24</u> Inc.	Breakdown: <u>10</u> Inc.
of <u>2</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>8</u>	<u>0</u>	<u>8</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>110</u>
P 2 <u>2</u>	<u>8</u>	<u>3</u>	<u>928</u>	<u>5</u>	<u>32</u>	<u>3</u>	<u>367</u>
P 3		<u>6</u>	<u>1210</u>	<u>10</u>	<u>32</u>	<u>6</u>	<u>835</u>
P 4		<u>9</u>	<u>1242</u>	<u>15</u>	<u>33</u>	<u>9</u>	<u>1079</u>
P 5		<u>12</u>	<u>1258</u>	<u>20</u>	<u>35</u>	<u>12</u>	<u>1139</u>
P 6		<u>15</u>	<u>1264</u>	<u>25</u>	<u>40</u>	<u>15</u>	<u>1167</u>
P 7		<u>18</u>	<u>1268</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>1187</u>
P 8		<u>21</u>	<u>1271</u>	<u>35</u>	<u>49</u>	<u>21</u>	<u>1199</u>
P 9		<u>24</u>	<u>1273</u>	<u>40</u>	<u>50</u>	<u>24</u>	<u>1208</u>
P 10		<u>27</u>	<u>1274</u>	<u>45</u>	<u>50</u>	<u>27</u>	<u>1215</u>
P 11		<u>30</u>	<u>1274</u>	<u>50</u>	<u>50</u>	<u>30</u>	<u>1219</u>
P 12				<u>55</u>	<u>50</u>		
P 13				<u>60</u>	<u>51</u>		
P 14				<u>65</u>	<u>55</u>		
P 15				<u>70</u>	<u>60</u>		
P 16				<u>75</u>	<u>64</u>		
P 17				<u>80</u>	<u>71</u>		
P 18				<u>85</u>	<u>79</u>		
P 19				<u>90</u>	<u>84</u>		
P 20				<u>95</u>	<u>88</u>		
				<u>100</u>	<u>92</u>		
				<u>105</u>	<u>95</u>		
				<u>110</u>	<u>101</u>		
				<u>115</u>	<u>105</u>		
				<u>120</u>	<u>110</u>		

Pickrell Drig. Co.
Horchem #A-1

Test # 4
TKT # 3742



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	2462 PSI
(B) First Initial Flow Pressure	8 PSI
(C) First Final Flow Pressure	8 PSI
(D) Initial Closed-in Pressure	1274 PSI
(E) Second Initial Flow Pressure	32 PSI
(F) Second Final Flow Pressure	110 PSI
(G) Final Closed-in Pressure	1219 PSI
(H) Final Hydrostatic Mud	2438 PSI