



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

Company Pickrell Drilling Company Lease & Well No. Fall A-1
Elevation 2191 Kelly Bushings Formation Mississippi Ticket Number 7603
Date May 18, 1966 Sec. 21 Twp. 22s Range 21w County Hodgeman State Kansas
Test Approved by R. Kenneth Smith Western Representative Dean Blagrove

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4387' to 4410' Total Depth 4410'
Size Main Hole 7 7/8 Rat Hole none Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Packer Depth 4382 Ft. Size 6 3/4 Packer Depth 4387 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 23 Ft. Size 5 1/2 OD
RECORDERS Depth 4401 Ft. Clock No. 6892 Depth 4404 Ft. Clock No. 6774
Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4300 No. 1567 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 4:28 P M
Tool Open I.F.P. From 4:30 M to 4:35 M Hr. 5 Min. From (B) 43 P.S.I. To (C) 43 P.S.I.
Tool Closed I.C.I.P. From 4:35 M. to 5:05 M. Hr. 30 Min. (D) 101 P.S.I.
Tool Open F.F.P. From 5:05 M. to 5:50 M. Hr. 45 Min. From (E) 47 P.S.I. To (F) 56 P.S.I.
Tool Closed F.C.I.P. From 5:50 M. to 6:20 M. Hr. 30 Min. (G) 59 P.S.I.
Initial Hydrostatic Pressure (A) 2369 P.S.I. Final Hydrostatic Pressure (H) 2355 P.S.I.

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

BLOW None seen; Found crack in union nipple Bottom Choke Size 3/4 In.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 10' drilling mud

 Mud
Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 48 Weight 10.1 Maximum Temp. 117 °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

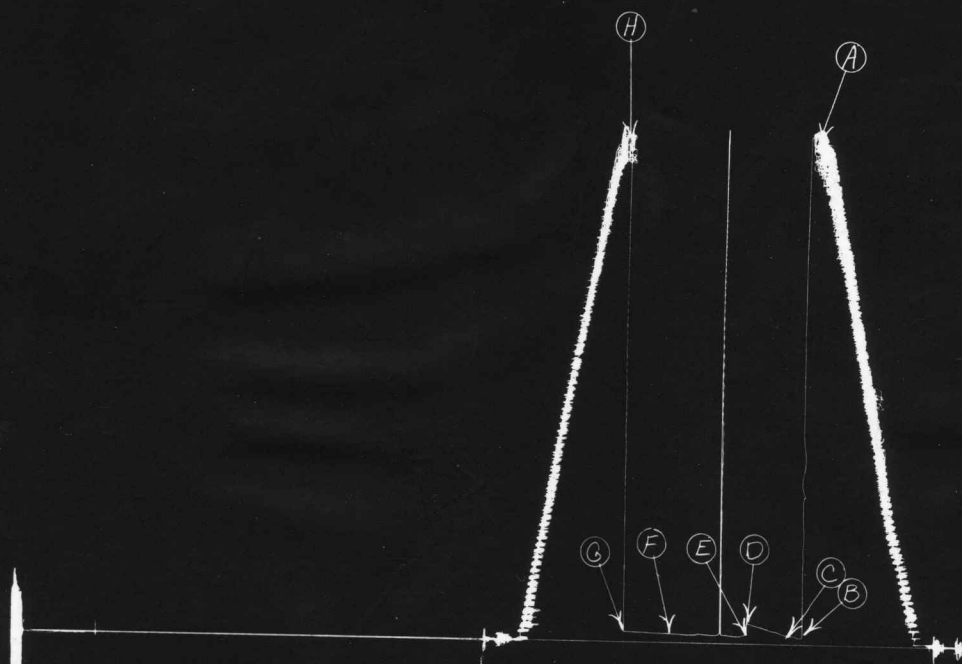
Length Drill Pipe ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1035 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 41 ft.

Remarks Flushed at 15 minutes.

Pickrell Drilling Co.
Fall A-1

TKT# 7603
Test# 1



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	2369	PSI
(B) First Initial Flow Pressure	43	PSI
(C) First Final Flow Pressure	43	PSI
(D) Initial Closed-in Pressure	101	PSI
(E) Second Initial Flow Pressure	47	PSI
(F) Second Final Flow Pressure	56	PSI
(G) Final Closed-in Pressure	59	PSI
(H) Final Hydrostatic Mud	2355	PSI



Home Office: Great Bend, Kansas
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Company Pickrell Drilling Company Lease & Well No. Fall #A-1
Elevation 2191 Kelly Bushings Formation Mississippi Ticket Number 7604
Date May 19, 1966 Sec. 21 Twp. 22s Range 21w County Hodgeman State Kansas
Test Approved by R. Kenneth G. Smith Western Representative Dean Blagrove

Formation Test No. 2 O.K. ☒ Misrun Interval Tested From 4387' 4420' Total Depth 4420'
Size Main Hole 7 7/8 Rat Hole none Conv. B.T. ☒ Damaged Yes ☒ No Conv. ☒ B.T. Damaged Yes ☒ No
Packer Depth 4382 Ft. Size 6 3/4 Packer Depth 4387 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 33 Ft. Size 5 1/2 OD
RECORDERS Depth 4411 Ft. Clock No. 6892 Depth 4414 Ft. Clock No. 6774
Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4300 No. 1567 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 4:13 A M
Tool Open I.F.P. From 4:15 M to 4:20 M Hr. 5 Min. From (B) 36 P.S.I. To (C) 36 P.S.I.
Tool Closed I.C.I.P. From 4:20 M. to 4:50 M. Hr. 30 Min. (D) 66 P.S.I.
Tool Open F.F.P. From 4:50 M. to 5:35 M. Hr. 45 Min. From (E) 39 P.S.I. To (F) 61 P.S.I.
Tool Closed F.C.I.P. From 5:35 M. to 6:05 M. Hr. 30 Min. (G) 69 P.S.I.
Initial Hydrostatic Pressure (A) 2265 P.S.I. Final Hydrostatic Pressure (H) 2254 P.S.I.

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

BLOW Weak for five minutes. Bottom Choke Size 3/4 In.
Did Well Flow Yes ☒ No Recovery Total Ft. 10' drilling mud

Reversed Out Yes ☒ No Mud Type starch Viscosity 48 Weight 10.1 Maximum Temp. 118 °F

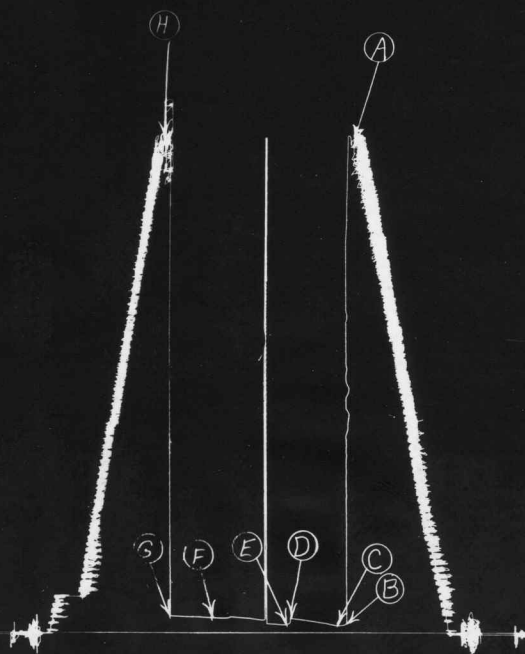
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make _____ Ser. No. _____
Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes

Length Drill Pipe _____ ft. I.D. Drill Pipe _____ in Length Weight Pipe 1035 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 51 ft.

Remarks Flushed at 15 minutes.

Pickrell DrLg Co.
Fall "A"-1

T.K.T. # 7604
Test # 2



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2265	PSI
(B) First Initial Flow Pressure	36	PSI
(C) First Final Flow Pressure	36	PSI
(D) Initial Closed-in Pressure	66	PSI
(E) Second Initial Flow Pressure	39	PSI
(F) Second Final Flow Pressure	61	PSI
(G) Final Closed-in Pressure	69	PSI
(H) Final Hydrostatic Mud	2254	PSI

COMPANY

PICKRELL DRILLING CO.

LEASE AND WELL NO.

FALL #A-1

SEC

21

TWP

22S

RGE

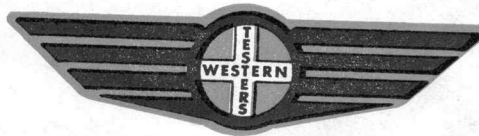
21W

TEST NO.

2

DATE

5-19-66



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

Company Pickrell Drilling Company Lease & Well No. Fall #A-1
Elevation 2191 Kelly Bushings Formation Mississippi Ticket Number 7605
Date May 19, 1966 Sec. 21 Twp. 22s Range 21w County Hodgeman State Kansas
Test Approved by R. Kenneth Smith Western Representative Dean Blagrave

Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4420' to 4435' Total Depth 4435'
Size Main Hole 7 7/8 Rat Hole none Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Packer Depth 4415 Ft. Size 6 3/4 Packer Depth 4420 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 15 Ft. Size 5 1/2 OD
RECORDERS Depth 4426 Ft. Clock No. 6892 Depth 4429 Ft. Clock No. 6774
Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4300 No. 1567 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 6:13 P M
Tool Open I.F.P. From 6:15 M to 6:20 M Hr. 5 Min. From (B) 38 P.S.I. To (C) 38 P.S.I.
Tool Closed I.C.I.P. From 6:20 M. to 6:50 M. Hr. 30 Min. (D) 61 P.S.I.
Tool Open F.F.P. From 6:50 M. to 7:35 M. Hr. 45 Min. From (E) 41 P.S.I. To (F) 44 P.S.I.
Tool Closed F.C.I.P. From 7:35 M. to 8:05 M. Hr. 30 Min. (G) 44 P.S.I.
Initial Hydrostatic Pressure (A) 2306 P.S.I. Final Hydrostatic Pressure (H) 2289 P.S.I.

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

BLOW Weak for five minutes. Bottom Choke Size 3/4 In.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 10' drilling mud

Mud
Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 46 Weight 10. Maximum Temp. 118 °F

EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☐ Jars: Size no Make Ser. No.

Type Circ. Sub. plug Did Tool Plug? ☐ Where? Did Packer Hold? ☒ yes

Length Drill Pipe ft. I.D. Drill Pipe in Length Weight Pipe 1035 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 33 ft.

Remarks Flushed at 15 minutes.

WESTERN TESTING CO., INC.

Pressure Data

Date May 19, 1966 Test Ticket No. 7605
 Recorder No. 2606 Capacity 4150 Location 4426 Ft.
 Clock No. 6892 Elevation 2191 Kelly Bushings Well Temperature 118 °F

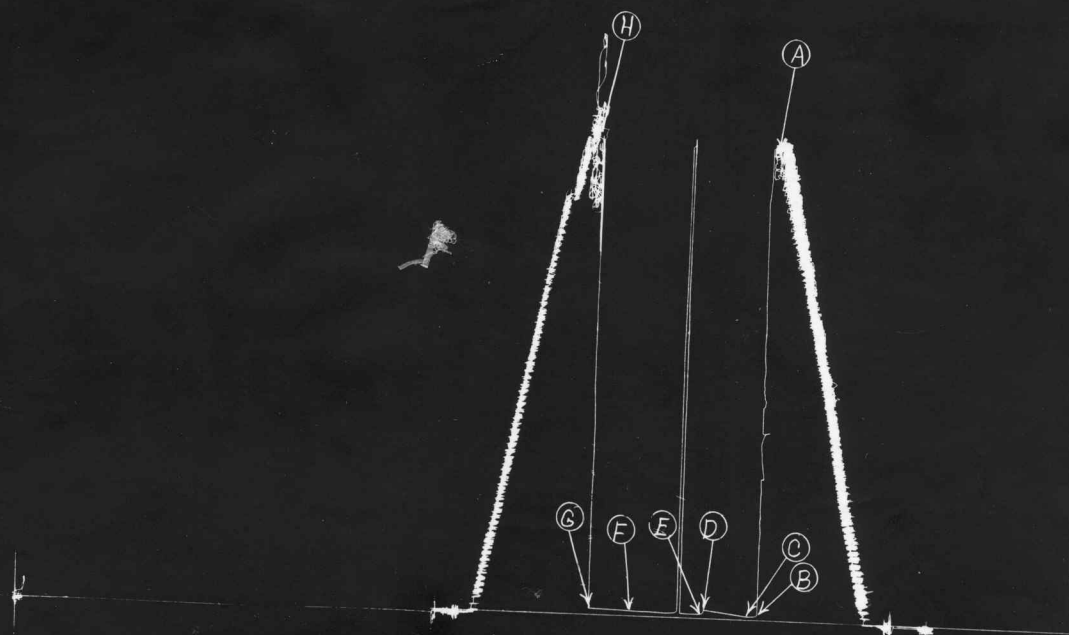
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2306</u> P.S.I.	Opened Tool	<u>6:15</u> P.M.	<u>6:15</u>
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>38</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>61</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>41</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>44</u> P.S.I.			
G Final Closed-in Pressure	<u>44</u> P.S.I.			
H Final Hydrostatic Mud	<u>2289</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>9</u> Inc.		Breakdown: <u>10</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>38</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>44</u>
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>38</u>	<u>5</u>	<u>41</u>	<u>3</u>	<u>44</u>
P 3		<u>6</u>	<u>40</u>	<u>10</u>	<u>41</u>	<u>6</u>	<u>44</u>
P 4		<u>9</u>	<u>42</u>	<u>15</u>	<u>41</u>	<u>9</u>	<u>44</u>
P 5		<u>12</u>	<u>44</u>	<u>20</u>	<u>44</u>	<u>12</u>	<u>44</u>
P 6		<u>15</u>	<u>46</u>	<u>25</u>	<u>44</u>	<u>15</u>	<u>44</u>
P 7		<u>18</u>	<u>49</u>	<u>30</u>	<u>44</u>	<u>18</u>	<u>44</u>
P 8		<u>21</u>	<u>54</u>	<u>35</u>	<u>44</u>	<u>21</u>	<u>44</u>
P 9		<u>24</u>	<u>57</u>	<u>40</u>	<u>44</u>	<u>24</u>	<u>44</u>
P10		<u>27</u>	<u>59</u>	<u>45</u>	<u>44</u>	<u>27</u>	<u>44</u>
P11		<u>30</u>	<u>61</u>			<u>30</u>	<u>44</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Pickrell DrLg. Co.
Fall "A" #1

TKT # 7605
Test # 3



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2306	PSI
(B) First Initial Flow Pressure	38	PSI
(C) First Final Flow Pressure	38	PSI
(D) Initial Closed-in Pressure	61	PSI
(E) Second Initial Flow Pressure	41	PSI
(F) Second Final Flow Pressure	44	PSI
(G) Final Closed-in Pressure	44	PSI
(H) Final Hydrostatic Mud	2289	PSI



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

Company Pickrell Drilling Company Lease & Well No. Fall #A-1
Elevation 2191 Kelly Bushings Formation Mississippi Ticket Number 7606
Date May 20, 1966 Sec. 21 Twp. 22s Range 21w County Hodgeman State Kansas
Test Approved by R. Kenneth Smith Western Representative Dean Blagrove

Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 4435' to 4455' Total Depth 4455'
Size Main Hole 7 7/8 Rat Hole none Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No ☐
Packer Depth 4430 Ft. Size 6 3/4 Packer Depth 4435 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 20 Ft. Size 5 1/2 OD
RECORDERS Depth 4444 Ft. Clock No. 6892 Depth 4447 Ft. Clock No. 6774
Top Make Kuster Cap. 4150 No. 2606 Inside Bottom Make Kuster Cap. 4300 No. 1567 ==Inside
Below Straddle: Depth Clock No. Inside Depth Ft. Clock No. Inside
Top Make Cap. No. Inside Bottom Make Cap. No. Inside

Time Set Packer 7:38 A M
Tool Open I.F.P. From 7:40 M to 7:45 M Hr. 5 Min. From (B) 39 P.S.I. To (C) 39 P.S.I.
Tool Closed I.C.I.P. From 7:45 M. to 8:15 M. Hr. 30 Min. (D) 1412 P.S.I.
Tool Open F.F.P. From 8:15 M. to 10:15 M. 2 Hr. Min. From (E) 47 P.S.I. To (F) 103 P.S.I.
Tool Closed F.C.I.P. From 10:15 M. to 10:45 M. Hr. 30 Min. (G) 1186 P.S.I.
Initial Hydrostatic Pressure (A) 2359 P.S.I. Final Hydrostatic Pressure (H) 2332 P.S.I.

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

BLOW Weak throughout. Bottom Choke Size 3/4 In.
Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 180' muddy salt water with scum of dead oil

Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 40 Weight 10. Maximum Temp. 120 °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 in Length Weight Pipe 1035 ft. I.D. Weight Pipe 2,7 in. Length Drill Collars none ft.
I. D. Drill Collars in. Length D.S.T. Tool 38 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date May 20, 1966

Recorder No. 2606

Capacity 4150

Test Ticket No. 7606

Clock No. 6892

Elevation 2191 Kelly Bushings

Location 4444 Ft.

Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2359</u> P.S.I.	Opened Tool	<u>7:40</u> A M	<u>7:40AM</u>
B First Initial Flow Pressure	<u>39</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</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>1412</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>117</u> Mins.
E Second Initial Flow Pressure	<u>47</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>103</u> P.S.I.			
G Final Closed-in Pressure	<u>1186</u> P.S.I.			
H Final Hydrostatic Mud	<u>2332</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

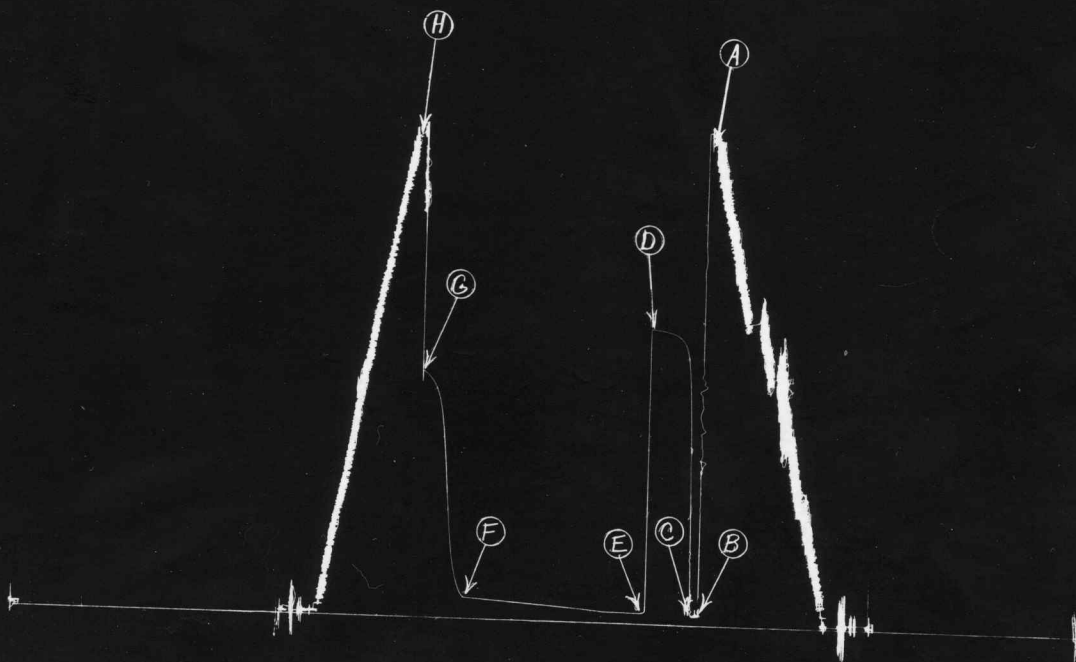
Second Flow Pressure
Breakdown: 23 Inc.
of 5 mins. and a
final inc. of 2 Min.

Final Shut-In
Breakdown: 10 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>39</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>103</u>
P 2 <u>5</u>	<u>39</u>	<u>3</u>	<u>649</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>131</u>
P 3		<u>6</u>	<u>1252</u>	<u>10</u>	<u>47</u>	<u>6</u>	<u>183</u>
P 4		<u>9</u>	<u>1346</u>	<u>15</u>	<u>49</u>	<u>9</u>	<u>283</u>
P 5		<u>12</u>	<u>1371</u>	<u>20</u>	<u>51</u>	<u>12</u>	<u>493</u>
P 6		<u>15</u>	<u>1387</u>	<u>25</u>	<u>53</u>	<u>15</u>	<u>873</u>
P 7		<u>18</u>	<u>1398</u>	<u>30</u>	<u>56</u>	<u>18</u>	<u>1037</u>
P 8		<u>21</u>	<u>1402</u>	<u>35</u>	<u>59</u>	<u>21</u>	<u>1105</u>
P 9		<u>24</u>	<u>1406</u>	<u>40</u>	<u>62</u>	<u>24</u>	<u>1146</u>
P 10		<u>27</u>	<u>1410</u>	<u>45</u>	<u>65</u>	<u>27</u>	<u>1168</u>
P 11		<u>30</u>	<u>1412</u>	<u>50</u>	<u>67</u>	<u>30</u>	<u>1186</u>
P 12				<u>55</u>	<u>70</u>		
P 13				<u>60</u>	<u>73</u>		
P 14				<u>65</u>	<u>76</u>		
P 15				<u>70</u>	<u>78</u>		
P 16				<u>75</u>	<u>81</u>		
P 17				<u>80</u>	<u>83</u>		
P 18				<u>85</u>	<u>85</u>		
P 19				<u>90</u>	<u>88</u>		
P 20				<u>95</u>	<u>91</u>		
				<u>100</u>	<u>94</u>		
				<u>105</u>	<u>97</u>		
				<u>110</u>	<u>100</u>		
				<u>115</u>	<u>102</u>		
				<u>117</u>	<u>103</u>		

Pickrell Drilling Co.
Fall "A"-1

T.K.T. # 7606
Test # 4



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	2359 PSI
(B) First Initial Flow Pressure	39 PSI
(C) First Final Flow Pressure	39 PSI
(D) Initial Closed-in Pressure	1412 PSI
(E) Second Initial Flow Pressure	47 PSI
(F) Second Final Flow Pressure	103 PSI
(G) Final Closed-in Pressure	1186 PSI
(H) Final Hydrostatic Mud	2332 PSI