



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Pickrell Drilg. Co. Lease & Well No. Froetschner C#1
Elevation 2113 Kelly Bushhing Formation Sand Effective Pay _____ Ft. Ticket No. 10450
Date 2-20-68 Sec. 18 Twp. 21s Range 17w County Pawnee State Kansas
Test Approved by Ralph W. Ruwwe Western Representative Dean Blagrave
Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3910' to 3940' Total Depth 3940'
Size Main Hole 7 7/8" Rat Hole _____ Conv. ☒ B.T. _____ Damaged Yes ☒ No Conv. _____ B.T. ☒ Damaged Yes ☒ No
Packer Depth 3905 Ft. Size 6 3/4 Packer Depth 3910 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 30 Ft. Size 5 1/2"OD
RECORDERS Depth 3931 Ft. Clock No. 8475 Depth 3934 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 1:49 A. M
Tool Open I.F.P. From 1:51 M. to 2:01 A M. Hr. 10 Min. From (B) 38 P.S.I. To (C) 38 P.S.I.
Tool Closed I.C.I.P. From 2:01 M. to 2:31 A M. Hr. 30 Min. (D) 59 P.S.I.
Tool Open F.F.P. From 2:31 M. to 3:31 A M. 1 Hr. -- Min. From (E) 47 P.S.I. To (F) 53 P.S.I.
Tool Closed F.C.I.P. From 3:31 M. to 4:01 A M. Hr. 30 Min. (G) 61 P.S.I.
Initial Hydrostatic Pressure (A) 2127 P.S.I. Final Hydrostatic Pressure (H) 2109 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 10 minutes. Bottom Choke Size 3/4 In.
Did Well Flow Yes ☒ No _____ Recovery Total Ft. 10 feet mud.
Reversed Out Yes ☒ No _____ Mud Type starch Viscosity 49 Weight 10.1 Water Loss 8.8 cc. Maximum Temp. 112 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size no Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? _____
Length Drill Pipe _____ ft. I.D. Drill Pipe _____ in. Length Weight Pipe 1055 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 48 ft.
Remarks Flushed at 20 and 40 minutes.

WESTERN TESTING CO., INC. Pressure Data

Date 2-20-68
Recorder No. 2606 Capacity 4150 Test Ticket No. 10450
Clock No. 8475 Elevation 2113 Kelly Bushing Location 3931 Ft.
Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2127</u>	P.S.I.	<u>1:51 A.</u>	<u>1:51 AM</u>
B First Initial Flow Pressure	<u>38</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>38</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>59</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>47</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>53</u>	P.S.I.		
G Final Closed-in Pressure	<u>61</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2109</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 2 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: 12 Inc.
of 5 mins. and a
final inc. of 0 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>38</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>53</u>
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>38</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>53</u>
P 3 <u>10</u>	<u>38</u>	<u>6</u>	<u>38</u>	<u>10</u>	<u>47</u>	<u>6</u>	<u>53</u>
P 4		<u>9</u>	<u>40</u>	<u>15</u>	<u>47</u>	<u>9</u>	<u>53</u>
P 5		<u>12</u>	<u>43</u>	<u>20</u>	<u>47</u>	<u>12</u>	<u>53</u>
P 6		<u>15</u>	<u>45</u>	<u>25</u>	<u>50</u>	<u>15</u>	<u>55</u>
P 7		<u>18</u>	<u>47</u>	<u>30</u>	<u>50</u>	<u>18</u>	<u>55</u>
P 8		<u>21</u>	<u>50</u>	<u>35</u>	<u>50</u>	<u>21</u>	<u>57</u>
P 9		<u>24</u>	<u>53</u>	<u>40</u>	<u>50</u>	<u>24</u>	<u>58</u>
P10		<u>27</u>	<u>57</u>	<u>45</u>	<u>53</u>	<u>27</u>	<u>59</u>
P11		<u>30</u>	<u>59</u>	<u>50</u>	<u>53</u>	<u>30</u>	<u>61</u>
P12				<u>55</u>	<u>53</u>		
P13				<u>60</u>	<u>53</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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Company **Pickrell Drlg. Co.** Lease & Well No. **Froetschner C#1**
Elevation **2113 Kelly Bushing** Formation **Sand** Effective Pay _____ Ft. Ticket No. **10451**
Date **2-20-68** Sec. **18** Twp. **21s** Range **17w** County **Pawnee** State **Kansas**
Test Approved by **Ralph W. Ruwwe** Western Representative **Dean Blagrave**
Formation Test No. **2** O.K. ☒ Misrun _____ Interval Tested From **3910'** to **3950'** Total Depth **3950'**
Size Main Hole **7 7/8** Rat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth **3905** Ft. Size **6 3/4** Packer Depth **3910** 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 **40** Ft. Size **5 1/2" OD**
RECORDERS Depth **3941** Ft. Clock No. **8475** Depth **3944** Ft. Clock No. **6774**
Top Make **Amerada** Cap. **4150** No. **2606** Inside _____ Outside **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 **1:26** P. M.
Tool Open I.F.P. From **1:29** M. to **1:39 P** M. Hr. **10** Min. From (B) **59** P.S.I. To (C) **59** P.S.I.
Tool Closed I.C.I.P. From **1:39** M. to **2:09 P** M. Hr. **30** Min. (D) **91** P.S.I.
Tool Open F.F.P. From **2:09** M. to **2:49 P** M. Hr. **40** Min. From (E) **61** P.S.I. To (F) **68** P.S.I.
Tool Closed F.C.I.P. From **2:49** M. to **3:19 P** M. Hr. **30** Min. (G) **76** P.S.I.
Initial Hydrostatic Pressure (A) **2107** P.S.I. Final Hydrostatic Pressure (H) **2073** 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 10 minutes.** Bottom Choke Size **3/4** In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. **10 feet mud.**
Reversed Out _____ Yes ☒ No _____ Mud Type **starch** Viscosity **44** Weight **10.** Water Loss **9.2** cc. Maximum Temp. **113** °F
Type Circ. Sub. **plug** Did Tool Plug? **no** Jars: Size **no** Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers **yes** Safety Joint **no** Did Packer Hold? **yes** Where? _____
Length Drill Pipe _____ ft. I.D. Drill Pipe _____ in. Length Weight Pipe **1055** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars **none** ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool **58** ft.
Remarks **Flushed at 20 minutes.**

WESTERN TESTING CO., INC.

Pressure Data

Date 2-20-68 Recorder No. 2606 Capacity 4150 Test Ticket No. 10451
 Clock No. 8475 Elevation 2113 Kelly Bushing Location 3941 Ft. Well Temperature 113 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2107</u> P.S.I.	<u>1:29 P.</u> M	<u>1:29 PM</u>
B First Initial Flow Pressure	<u>59</u> P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>59</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>91</u> P.S.I.	<u>40</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>61</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>68</u> P.S.I.		
G Final Closed-in Pressure	<u>76</u> P.S.I.		
H Final Hydrostatic Mud	<u>2073</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>8</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>--</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>59</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>68</u>
P 2 <u>5</u>	<u>59</u>	<u>3</u>	<u>59</u>	<u>5</u>	<u>61</u>	<u>3</u>	<u>68</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>59</u>	<u>10</u>	<u>61</u>	<u>6</u>	<u>68</u>
P 4		<u>9</u>	<u>61</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>68</u>
P 5		<u>12</u>	<u>64</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>70</u>
P 6		<u>15</u>	<u>69</u>	<u>25</u>	<u>68</u>	<u>15</u>	<u>70</u>
P 7		<u>18</u>	<u>73</u>	<u>30</u>	<u>68</u>	<u>18</u>	<u>72</u>
P 8		<u>21</u>	<u>77</u>	<u>35</u>	<u>68</u>	<u>21</u>	<u>72</u>
P 9		<u>24</u>	<u>82</u>	<u>40</u>	<u>68</u>	<u>24</u>	<u>74</u>
P10		<u>27</u>	<u>87</u>			<u>27</u>	<u>75</u>
P11		<u>30</u>	<u>91</u>			<u>30</u>	<u>76</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Pickrell DrLg. Co.
Froetschner C #1

T.K.T. #10451
Test #2

COMPANY Pickrell DrLg. Co.

LEASE AND WELL NO.

Froetschner C#1

SEC.

18

TWP.

21s

RGE.

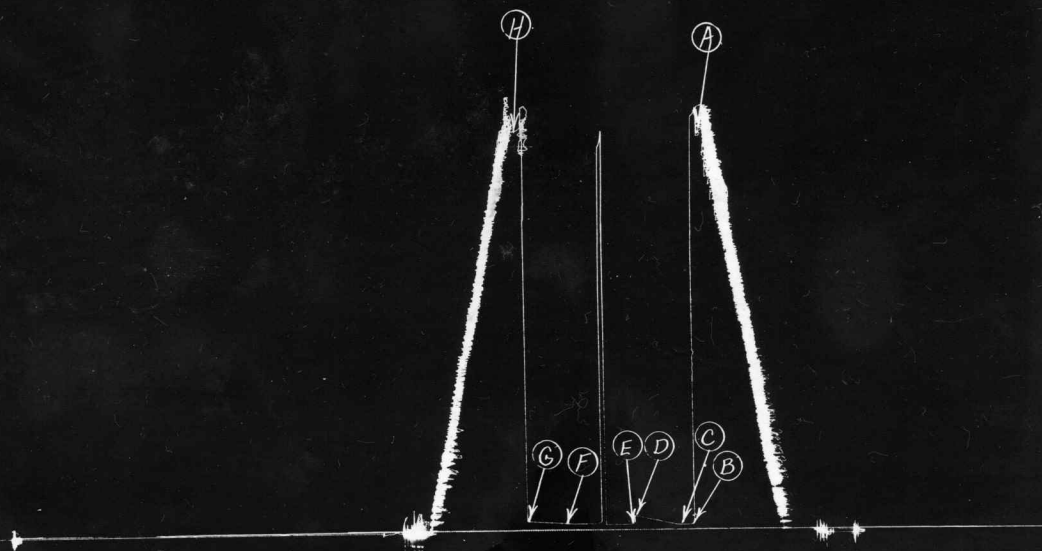
17w

TEST NO.

2

DATE

2-20-68



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2104	2107	PSI
(B) First Initial Flow Pressure	62	59	PSI
(C) First Final Flow Pressure	62	59	PSI
(D) Initial Closed-in Pressure	93	91	PSI
(E) Second Initial Flow Pressure	62	61	PSI
(F) Second Final Flow Pressure	72	68	PSI
(G) Final Closed-in Pressure	72	76	PSI
(H) Final Hydrostatic Mud	2083	2073	PSI



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Company Pickrell Drilg. Co. Lease & Well No. Froetschner C#1
Elevation 2113 Kelly Bushing Formation Reagan Effective Pay 13 Ft. Ticket No. 10452
Date 2-21-68 Sec. 18 Twp. 21s Range 17w County Pawnee State Kansas
Test Approved by Ralph W. Ruwwe Western Representative Dean Blagrave

Formation Test No. 3 O.K. ☒ Misrun Interval Tested From 3952' to 3965' Total Depth 3965'
Size Main Hole 7 7/8" Cat Hole Conv. ☒ B.T. Damaged Yes ☒ No Conv. B.T. ☒ Damaged Yes ☒ No
Packer Depth 3947 Ft. Size 6 3/4 Packer Depth 3952 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 13 Ft. Size 5 1/2" OD
RECORDERS Depth 3956 Ft. Clock No. 8475 Depth 3959 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 Depth Ft. Clock No. Inside Outside
Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 4:14 A. M.
Tool Open I.F.P. From 4:16 M. to 4:21 A M. Hr. 5 Min. From (B) 346 P.S.I. To (C) 609 P.S.I.
Tool Closed I.C.I.P. From 4:21 M. to 4:51 A M. Hr. 30 Min. (D) 1227 P.S.I.
Tool Open F.F.P. From 4:51 M. to 5:51 A M. 1 Hr. -- Min. From (E) 719 P.S.I. To (F) 1223 P.S.I.
Tool Closed F.C.I.P. From 5:51 M. to 6:21 A M. Hr. 30 Min. (G) 1227 P.S.I.
Initial Hydrostatic Pressure (A) 2139 P.S.I. Final Hydrostatic Pressure (H) 2112 P.S.I.

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

BLOW Strong - decreasing to weak at end. Bottom Choke Size 3/4 In.
Did Well Flow Yes ☒ No Recovery Total Ft. 2575 feet black sulphur water.

Reversed Out ☒ Yes No Mud Type starch Viscosity 50 Weight 10 Water Loss 9.2 cc. Maximum Temp 121 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size no Make Ser. No.
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?
Length Drill Pipe ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1055 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.
I. D. Drill Collars in. Length D.S.T. Tool 31 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 2-21-68 Test Ticket No. 10452
 Recorder No. 2606 Capacity 4150 Location 3956 Ft.
 Clock No. 8475 Elevation 2113 Kelly Bushing Well Temperature 121 °F

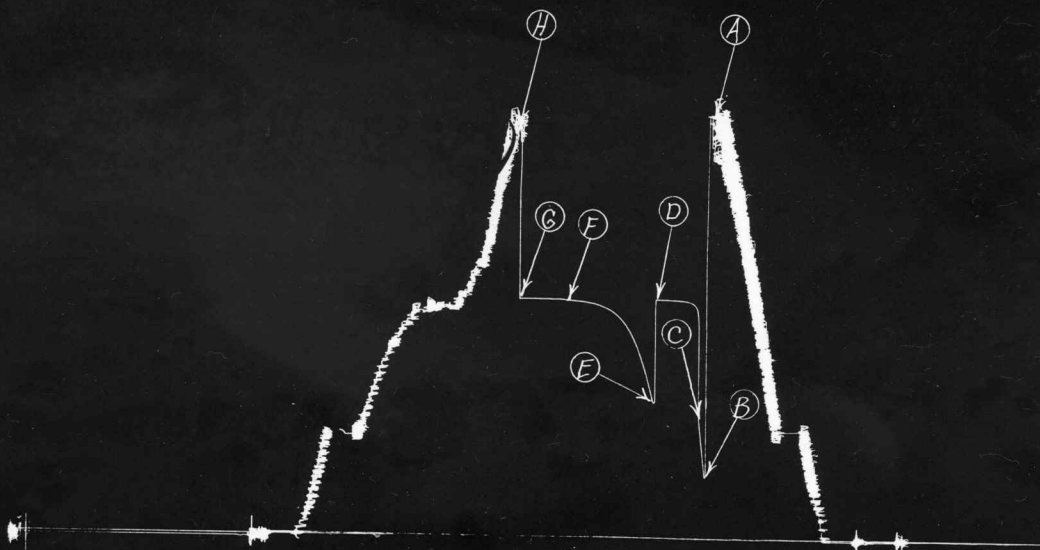
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2139</u> P.S.I.	<u>4:16 A.</u> M	<u>4:16 AM</u>
B First Initial Flow Pressure	<u>346</u> P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>609</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1227</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>719</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>1223</u> P.S.I.		
G Final Closed-in Pressure	<u>1227</u> P.S.I.		
H Final Hydrostatic Mud	<u>2112</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>12</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>346</u>	<u>0</u>	<u>609</u>	<u>0</u>	<u>719</u>	<u>0</u>	<u>1223</u>
P 2 <u>5</u>	<u>609</u>	<u>3</u>	<u>1196</u>	<u>5</u>	<u>835</u>	<u>3</u>	<u>1226</u>
P 3		<u>6</u>	<u>1215</u>	<u>10</u>	<u>958</u>	<u>6</u>	<u>1227</u>
P 4		<u>9</u>	<u>1219</u>	<u>15</u>	<u>1056</u>	<u>9</u>	<u>1227</u>
P 5		<u>12</u>	<u>1221</u>	<u>20</u>	<u>1116</u>	<u>12</u>	<u>1227</u>
P 6		<u>15</u>	<u>1223</u>	<u>25</u>	<u>1153</u>	<u>15</u>	<u>1227</u>
P 7		<u>18</u>	<u>1225</u>	<u>30</u>	<u>1178</u>	<u>18</u>	<u>1227</u>
P 8		<u>21</u>	<u>1226</u>	<u>35</u>	<u>1196</u>	<u>21</u>	<u>1227</u>
P 9		<u>24</u>	<u>1227</u>	<u>40</u>	<u>1207</u>	<u>24</u>	<u>1227</u>
P10		<u>27</u>	<u>1227</u>	<u>45</u>	<u>1215</u>	<u>27</u>	<u>1227</u>
P11		<u>30</u>	<u>1227</u>	<u>50</u>	<u>1217</u>	<u>30</u>	<u>1227</u>
P12				<u>55</u>	<u>1221</u>		
P13				<u>60</u>	<u>1223</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Pickrell Drilling Co.
Froetschner C#1

TKT# 10452
Test# 3



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2135	2139	PSI
(B) First Initial Flow Pressure	343	346	PSI
(C) First Final Flow Pressure	634	609	PSI
(D) Initial Closed-in Pressure	1225	1227	PSI
(E) Second Initial Flow Pressure	717	719	PSI
(F) Second Final Flow Pressure	1215	1223	PSI
(G) Final Closed-in Pressure	1225	1227	PSI
(H) Final Hydrostatic Mud	2114	2112	PSI