WESTERN TESTERS INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Petroleum, Inc. Lease & Well No. Hockersmith #1

Elevation 2732 Kelly Bush. Formation Lansing Effective Pay - Ft. Ticket No. 25587

Date 6-28-76 Sec. 36 Twp. 13S Range 29W County Gove State Kansas

Test Approved by Raymond R. Dombaugh Western Representative Max Knipe

Formation Test No. 1 O.K. X Misrun - Interval Tested From 3864' to 3978' Total Depth 3978'

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

Top Packer Depth 3869 Ft. Size 6 3/4 Bottom Packer Depth 3864 Ft. Size 6 3/4

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

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 114 Ft. Size 5½OD &4½DP Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3870 Ft. Clock No. 6897 Depth 3872 Ft. Clock No. 10168

Top Make Kuster Cap. 4250 No. 1051 ~~Inside~~ ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3659 ~~Inside~~ Outside

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

Time Set Packer 9:46 A. M

Tool Open I.F.P. From 9:50A M. to 10:20A M. - Hr. 30 Min. From (B) 243 P.S.I. To (C) 906 P.S.I.

Tool Closed I.C.I.P. From 10:20A M. to 10:50A M. - Hr. 30 Min (D) 1186 P.S.I.

Tool Open F.F.P. From 10:50A M. to 11:20A M. - Hr. 30 Min. From (E) 968 P.S.I. To (F) 1104 P.S.I.

Tool Closed F.C.I.P. From 11:20A M. to 11:50A M. - Hr. 30 Min. (G) 1191 P.S.I.

Initial Hydrostatic Pressure (A) 2049 P.S.I. Final Hydrostatic Pressure (H) 1974 P.S.I. Maximum Temp. 126

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 250' of thin mud, 2180' of salt water (78,000 P.P.M.)

Reversed Out X Yes - No Mud Type Chem Viscosity 46 Weight 9.5 Water Loss 14. cc. Chlorides 16,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

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

DRILLING CONTRACTOR DaMac Drlg. Length Drill Pipe? 3179 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In.

Length Weight Pipe 666 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½XH Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 133 Ft.

Remarks:

36-13S-29W
C SE-SE-NE

WESTERN TESTING CO., INC.
Pressure Data

Date 6-28-76 Test Ticket No. 25587

Recorder No. 1051 Capacity 4250 Location 3870 Ft.

Clock No. 6897 Elevation 2732 Kelly Bushing Well Temperature 126 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2049 P.S.I.	Open Tool	9:46 A. M	
B	First Initial Flow Pressure	243 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	906 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D	Initial Closed-in Pressure	1186 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	968 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	1104 P.S.I.			
G	Final Closed-in Pressure	1191 P.S.I.			
H	Final Hydrostatic Mud	1974 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	243
P 2	5	429
P 3	10	568
P 4	15	767
P 5	20	768
P 6	25	840
P 7	30	904
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

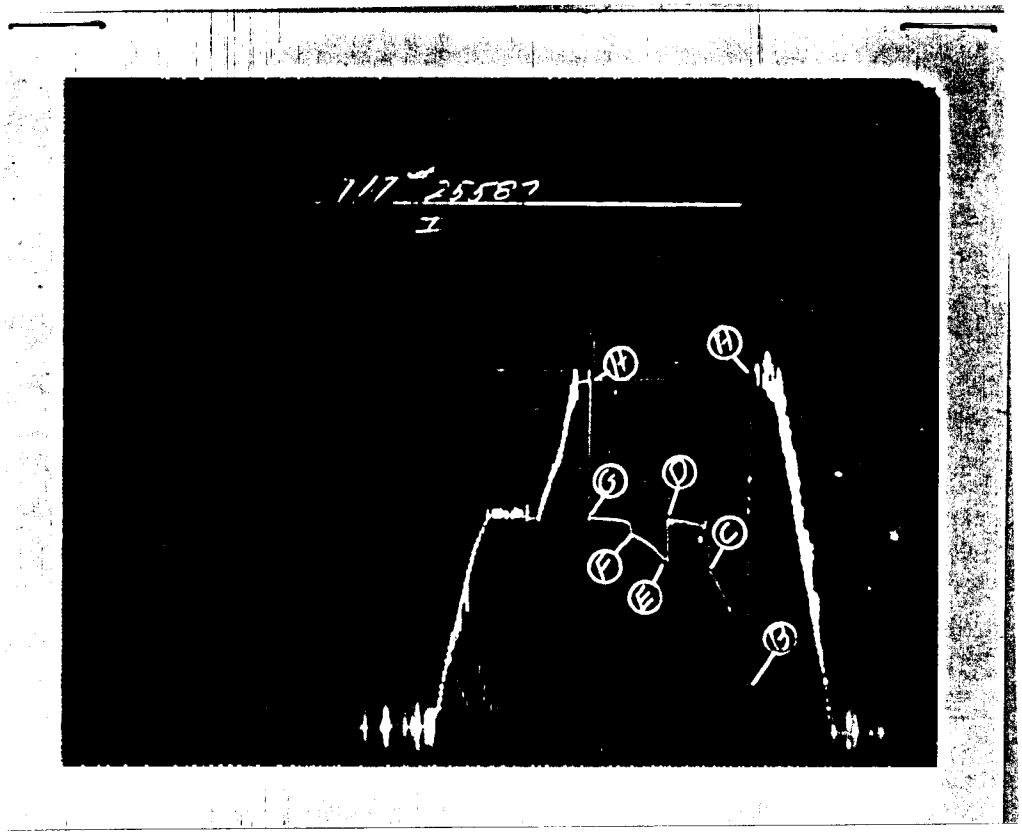
Point	Minutes	Press.
	0	904
	3	1137
	6	1154
	9	1163
	12	1167
	15	1171
	18	1178
	21	1180
	24	1182
	27	1184
	30	1185
	33	1186

Second Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	968
	5	987
	10	1023
	15	1051
	20	1076
	25	1095
	30	1104

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

Point	Minutes	Press.
	0	1104
	3	1171
	6	1178
	9	1182
	12	1184
	15	1186
	18	1188
	21	1189
	24	1189
	27	1190
	30	1191



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1985	2049	PSI
(B)	First Initial Flow Pressure	236	243	PSI
(C)	First Final Flow Pressure	899	906	PSI
(D)	Initial Closed-in Pressure	1175	1186	PSI
(E)	Second Initial Flow Pressure	963	968	PSI
(F)	Second Final Flow Pressure	1101	1104	PSI
(G)	Final Closed-in Pressure	1175	1191	PSI
(H)	Final Hydrostatic Mud	1963	1974	PSI

COMPANY Petroleum, Inc. LEASE AND WELL NO. Hockersmith #1 SEC. 36 TWP. 13S RGE. 29W TEST NO. 1 DATE 6/28/76

WESTERN

INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Petroleum, Inc. Lease & Well No. Hockersmith #1

Elevation 1732 Kelly Bush. Formation Lansing Effective Pay - Ft. Ticket No. 25588

Date 6-29-76 Sec. 36 Twp. 13S Range 29W County Gove State Kansas

Test Approved by Raymond R. Dombaugh Western Representative Paul Barragan

Formation Test No. 2 O.K. X Misrun - Interval Tested From 4018' to 4110' Total Depth 4110'

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

Top Packer Depth 4013 Ft. Size 6 3/4 Bottom Packer Depth 4018 Ft. Size 6 3/4

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

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 92 Ft. Size 5½OD &4½DP Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4102 Ft. Clock No. 6897 Depth 4105 Ft. Clock No. 10168

Top Make Kuster Cap. 4250 No. 1051 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3659 ~~Inside~~ Outside

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

Time Set Packer 7:36 A. M

Tool Open I.F.P. From 7:40A M. to 8:10A M. - Hr. 30 Min. From (B) 79 P.S.I. To (C) 86 P.S.I.

Tool Closed I.C.I.P. From 8:10A M. to 8:40A M. - Hr. 30 Min (D) 1000 P.S.I.

Tool Open F.F.P. From 8:40A M. to 9:10A M. - Hr. 30 Min. From (E) 133 P.S.I. To (F) 126 P.S.I.

Tool Closed F.C.I.P. From 9:10A M. to 9:40A M. - Hr. 30 Min. (G) 804 P.S.I.

Initial Hydrostatic Pressure (A) 2205 P.S.I. Final Hydrostatic Pressure (H) 2145 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Weak blow for 30 minutes.

Did Well Flow - Yes X No Recovery Total Ft. 65' of drilling mud with few spots of oil in tool.

Reversed Out - Yes X No Mud Type Chem. Viscosity 44 Weight 9.5 Water Loss 11 cc. Chlorides 16,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

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

DRILLING CONTRACTOR DaMac Drlg. Co. (#1) Length Drill Pipe? 3332 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XHn.

Length Weight Pipe 666 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½XHn. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 112 Ft.

Remarks: Slid tool 6' to bottom.

36-135-29

WESTERN TESTING CO., INC.
Pressure Data

Date 6-29-76 Test Ticket No. 25588

Recorder No. 1051 Capacity 4250 Location 4102 Ft.

Clock No. 6897 Elevation 1732 Kelly Bushing Well Temperature 128 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2205	P.S.I.
B	First Initial Flow Pressure	79	P.S.I.
C	First Final Flow Pressure	86	P.S.I.
D	Initial Closed-in Pressure	1000	P.S.I.
E	Second Initial Flow Pressure	133	P.S.I.
F	Second Final Flow Pressure	126	P.S.I.
G	Final Closed-in Pressure	804	P.S.I.
H	Final Hydrostatic Mud	2145	P.S.I.

	Time Given	Time Computed
Open Tool	7:36 A. M.	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	30 Mins.	30 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	79
P 2 5	79
P 3 10	80
P 4 15	81
P 5 20	83
P 6 25	84
P 7 30	86
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

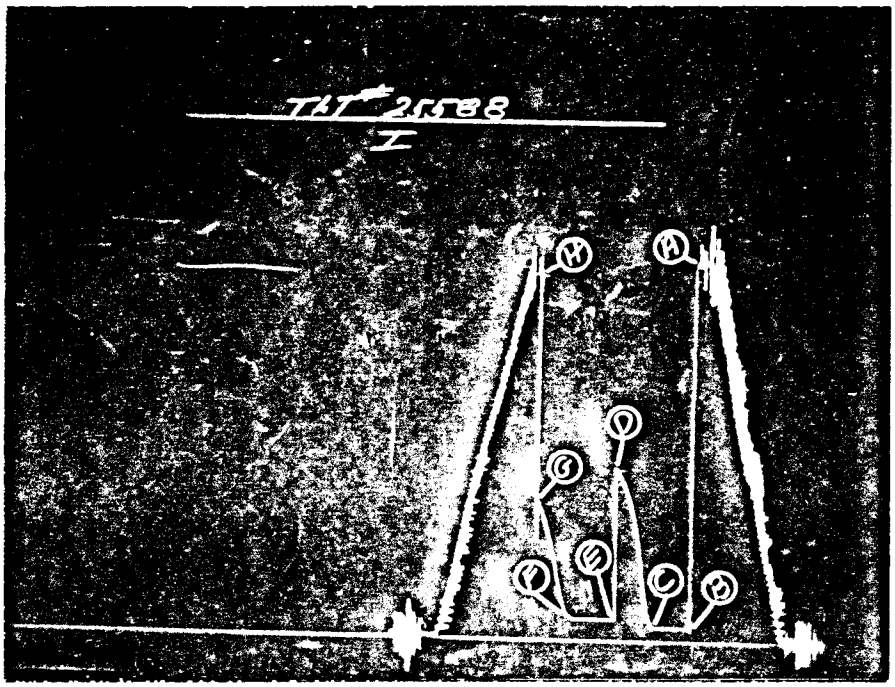
Point Minutes	Press.
0	86
3	118
6	202
9	344
12	502
15	631
18	740
21	825
24	891
27	942
30	1000

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	133
5	125
10	125
15	126
20	126
25	126
30	126

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

Point Minutes	Press.
0	126
3	311
6	146
9	194
12	275
15	394
18	508
21	610
24	689
27	755
30	804



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2108	2205	PSI
(B)	First Initial Flow Pressure	75	79	PSI
(C)	First Final Flow Pressure	86	86	PSI
(D)	Initial Closed-in Pressure	995	1000	PSI
(E)	Second Initial Flow Pressure	107	133	PSI
(F)	Second Final Flow Pressure	118	126	PSI
(G)	Final Closed-in Pressure	782	804	PSI
(H)	Final Hydrostatic Mud	2091	2145	PSI

COMPANY Petroleum, Inc. LEASE AND WELL NO. Hockersmith #1 SEC. 36 TWP. 13S RGE. 29W TEST NO. 2 DATE 6/29/76

WESTERN TESTERS INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Petroleum, Inc. Lease & Well No. Hockersmith #1

Elevation 1732 Kelly Bush. Formation Lansing Effective Pay - Ft. Ticket No. 25589

Date 6-30-76 Sec. 36 Twp. 13S Range 29W County Gove State Kansas

Test Approved by Raymond R. Dombaugh Western Representative Guy M. Knipe

Formation Test No. 3 O.K. X Misrun - Interval Tested From 4112' to 4170' Total Depth 4170'

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

Top Packer Depth 4107 Ft. Size 6 3/4 Bottom Packer Depth 4112 Ft. Size 6 3/4

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

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 58 Ft. Size 5½OD & 4½DP Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4162 Ft. Clock No. 6897 Depth 4165 Ft. Clock No. 10168

Top Make Kuster Cap. 4250 No. 1051 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3659 ~~Inside~~ Outside

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

Time Set Packer 11:41P. M

Tool Open I.F.P. From 11:45P M. to 12:15A M. - Hr. 30 Min. From (B) 60 P.S.I. To (C) 68 P.S.I.

Tool Closed I.C.I.P. From 12:15A M. to 12:45A M. - Hr. 30 Min (D) 1127 P.S.I.

Tool Open F.F.P. From 12:45A M. to 1:15A M. - Hr. 30 Min. From (E) 108 P.S.I. To (F) 112 P.S.I.

Tool Closed F.C.I.P. From 1:15A M. to 2:15A M. - Hr. 60 Min. (G) 1144 P.S.I.

Initial Hydrostatic Pressure (A) 2185 P.S.I. Final Hydrostatic Pressure (H) 2134 P.S.I. Maximum Temp. 129

INFORMATION

BLOW Weak blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 65' of thin mud.

Reversed Out - Yes X No Mud Type Chem Viscosity 44 Weight 9.5 Water Loss 11 cc. Chlorides 17,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

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

DRILLING CONTRACTOR DaMac Drlg. Co. (#1) Length Drill Pipe? 3427 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In.

Length Weight Pipe 666 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½XH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 77 Ft.

Remarks:

36 - 13S - 29W
C SE - SE - NE

WESTERN TESTING CO., INC.
Pressure Data

Date 6-30-76 Test Ticket No. 25589

Recorder No. 1051 Capacity 4250 Location 4162 Ft.

Clock No. 6897 Elevation 1732 Kelly Bushing Well Temperature 129 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2185	P.S.I.	Open Tool 11:41 P. M	
B	First Initial Flow Pressure	60	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C	First Final Flow Pressure	68	P.S.I.	Initial Closed-in Pressure 30 Mins.	33 Mins.
D	Initial Closed-in Pressure	1127	P.S.I.	Second Flow Pressure 30 Mins.	30 Mins.
E	Second Initial Flow Pressure	108	P.S.I.	Final Closed-in Pressure 60 Mins.	60 Mins.
F	Second Final Flow Pressure	112	P.S.I.		
G	Final Closed-in Pressure	1144	P.S.I.		
H	Final Hydrostatic Mud	2134	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	60
P 2 5	60
P 3 10	62
P 4 15	64
P 5 20	65
P 6 25	67
P 7 30	68
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

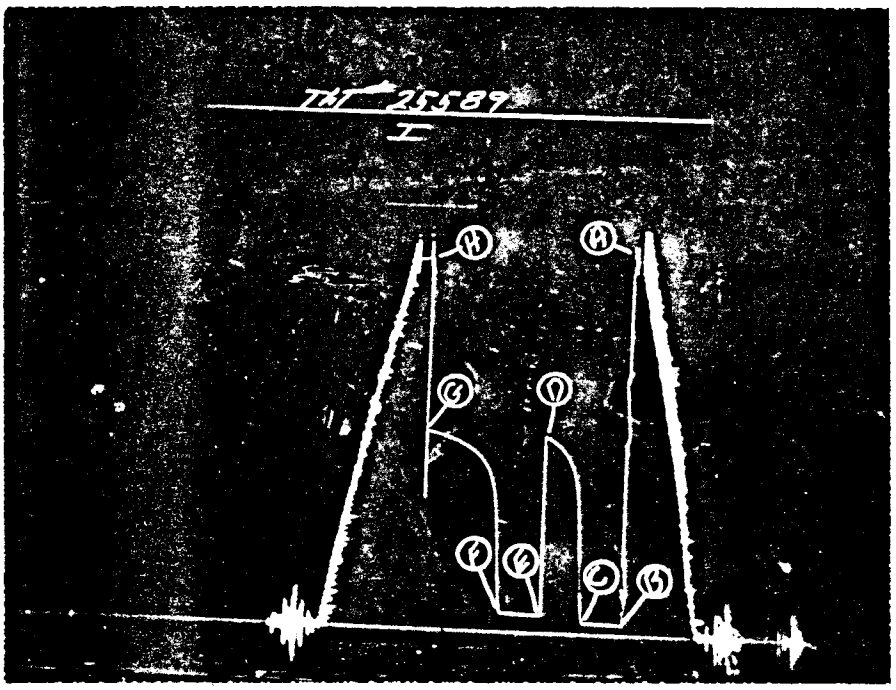
Point Minutes	Press.
0	68
3	332
6	749
9	893
12	962
15	1007
18	1038
21	1063
24	1084
27	1101
30	1114
33	1127

Second Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	108
5	105
10	105
15	106
20	108
25	110
30	112

Final Shut-In
Breakdown 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	112
3	351
6	723
9	859
12	923
15	965
18	994
21	1019
24	1038
27	1053
30	1068
33	1078
36	1092
39	1097
42	1108
45	1116
48	1125
51	1129
54	1135
57	1139
60	1144



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2176	2185	PSI
(B)	First Initial Flow Pressure	53	60	PSI
(C)	First Final Flow Pressure	64	68	PSI
(D)	Initial Closed-in Pressure	1122	1127	PSI
(E)	Second Initial Flow Pressure	69	108	PSI
(F)	Second Final Flow Pressure	107	112	PSI
(G)	Final Closed-in Pressure	1133	1144	PSI
(H)	Final Hydrostatic Mud	2123	2134	PSI

COMPANY Petroleum, Inc. LEASE AND WELL NO. Hockersmith #1 SEC. 36 TWP. 13S RGE. 29W TEST NO. 3 DATE 6/30/76